

TEST

TEST 7 NOT COMPARE
MD-11-DOG-A

EP-DOG-A-DL-A

NOV 1976

COPYRIGHT © 1976

digital

FICHE 1 OF 1

MADE IN USA

This microfiche card contains a grid of frames. The first column of frames contains a series of small, illegible text labels. The remaining frames in the grid contain vertical columns of data, likely representing individual records or entries from a database. The data is organized into columns, with some frames showing more dense information than others.

100
1234

801

.REM %

IDENTIFICATION

PRODUCT CODE: MAINDEC-11-DOAA TO DOLA-D
 PRODUCT NAME: FIRST LEVEL 1-12
 DATE CREATED: 17 MARCH 1970
 MAINTAINER: DIAGNOSTIC GROUP
 AUTHOR: JOHN HITTELL

THIS GROUP OF TESTS CONSIST OF:

PROCESSOR TEST	MAINDEC
TEST 1	BRANCH 11-DOAA
2	CON BRANCH 11-DOBA
3	UNARY 11-DOCA
4	UNARY AND BINARYS 11-DODA
5	ROTATE/SHIFT 11-DOEA
6	COMPARE 11-DOFA
7	COMPARE NOT 11-DOGA
8	MOVE 11-DOHA
9	BIS,BIC AND BIT 11-DOIA
10	ADD 11-DOJA
11	SUBTRACT 11-DOKA
12	JMP 11-DOLA

MAIN DEC-11-DOAA TO DOLA-D
 FIRST LEVEL 1-12
 17 MARCH 1970
 DIAGNOSTIC GROUP
 JOHN HITTELL

105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160

- 5. OPERATING PROCEDURE
 - 5.1 OPERATIONAL SWITCH SETTINGS
 - 5.1.1 NO SWITCHES ARE USED
 - 5.1.3
 - 5.2 SUBROUTINE ABSTRACTS
 - 5.2.1 BEGIN SA 200
 - 5.2.2 SCOPE
 -
 - IS A "NOP" THAT IS PLACED BETWEEN EACH SUBTEST IN THE INSTRUCTION SECTION. IF A SCOPE LOOP IS NEEDED, INSERT A BRANCH TO THE PREVIOUS SCOPE LOCATION AT THE CURRENT SCOPE LOCATION. (NOTE NOP=240)
 - 5.2.3 HLT
 -
 - INDICATES THE UNIQUE ADDRESS THAT TAGS THE FAILING SUBTEST. THE INCORRECT DATA AT THE TIME OF THE FAILURE MAY OR MAY NOT BE DISPLAYED IN REGISTER ZERO, WHICH IS THE DATA REGISTER ON A HALT.
 - 5.3 PROGRAM AND/OR OPERATOR ACTION
 - 5.3.1 LOADING AND STARTING AT 200 STARTS THE TEST. IF AN ERROR IS DETECTED, THERE WILL BE A HALT. WHEN A HALT OCCURS AND IT IS NECESSARY TO SCOPE ON IT, PLACE INSERT A BRANCH INSTRUCTION IN THE SCOPE LOCATION FOLLOWING THE HALT. THE BRANCH INSTRUCTION SHOULD BRANCH YOU TO THE PREVIOUS SCOPE LOCATION.
- 6. ERRORS
 - 6.1 ALL ERRORS WILL CAUSE A HALT.
 - 6.2 ERROR RECOVERY
 - ON TRAP ERRORS - RESTART AT 200.
 DEPRESS CONTINUE TO CONTINUE TEST
- 7. RESTRICTIONS
 - 7.1 STARTING RESTRICTION
 - NONE

E01

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 5
DDGA.P11

161
162
163

7.2 OPERATIONAL RESTRICTION
NONE

164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219

8. MISCELLANEOUS

IF A HALT OCCURES IN THE TRAP OR INTERRUPT VECTOR AREA, REGISTER SIX SHOULD BE EXAMINED TO DETERMINE ITS CONTENTS, THEN USE REGISTER SIX CONTENTS AS AN ADDRESS TO DETERMINE THE LOCATION THE PROGRAM WAS AT, WHEN THE INTERRUPT OR TRAP OCCURRED. (MEMORY AS SPECIFIED BY R6 CONTAINS THE PC OF THE INSTRUCTION FOLLOWING THE INSTRUCTION WHERE THE TRAP OCCURED)

8.1 EXECUTION TIME

TIME BETWEEN BELLS

FOR TAPE 1	5	MINUTES
FOR TAPE 2	2.5	MINUTES
FOR TAPE 3	3	MINUTES
FOR TAPE 4	6	MINUTES
FOR TAPE 5	5	MINUTES
FOR TAPE 6	6	MINUTES
FOR TAPE 7	5	MINUTES
FOR TAPE 8	6	MINUTES
FOR TAPE 9	3	MINUTES
FOR TAPE 10	4	MINUTES
FOR TAPE 11	2	MINUTES
FOR TAPE 12	4	MINUTES

9. PROGRAM DESCRIPTION

- TEST 1 THIS IS A TEST OF THE UNCONDITIONAL BRANCH INSTRUCTION, IT PROVES THAT A LONG PROGRAM CAN BE LOADED AND THE INSTRUCTIONS CAN BE EXECUTED THROUGHOUT MEMORY.
- TEST 2 THIS IS A CONDITIONAL BRANCH TEST USING ALL OF THE CONDITIONAL BRANCH INSTRUCTIONS. IT TESTS THAT ALL COMBINATIONS OF CONDITION CODES ARE RESPONDED TO CORRECTLY. (THE CONDITION CODES ARE MANIPULATED WITH THE MICRO-PROGRAM OPERATIONS.)
- TEST 3 THIS IS A TEST OF THE UNARY INSTRUCTIONS AND THEIR EFFECTS UPON THE CONDITION CODES ONLY. MOSTLY REGISTER OPERATIONS.
- TEST 4 THIS IS A COMBINED USE OF UNARY AND BINARY INSTRUCTIONS TESTING THE RESULTS AND THE CONDITION CODES.
- TEST 5 THIS TEST ROTATE AND SHIFT INSTRUCTION, BOTH THE REGISTERS AND MEMORY LOCATIONS, WORD AND BYTE, ARE TESTED.
- TEST 6 THIS IS A TEST OF THE COMPARE INSTRUCTIONS FOR

GO1

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 7
DOGA.P11

220
221
222

EQUALITY. ALL CONDITIONAL BRANCHES THAT WILL
BRANCH ON ANY FORM OF EQUALITY ARE ALSO TESTED.
BOTH WORD AND BYTE OPERATIONS ARE USED.

IO1

MAIN. MACY11 27(732) 01-OCT-75 10:12 PAGE 9
 DOGA.P11

```

252                                     %
253
254                                     ;TEST 7 CMPNOT-PDP11
255                                     ;TEST COMBINATIONS OR CONDITIONAL BRANCH, WITH COMPARE
256                                     ;FOR GREATER AND LESS THAN AND SUB-COMBINATIONS
257                                     ;COPYRIGHT 1969, DIGITAL EQUIPMENT CORP., MAYNARD, MASS.
258
259                                     HLT=0
260                                     SCOPE=240
261                                     .=200
262
263                                     ;TEST COMPARE WORD FOR GREATER AND LESS THAN
264
265     000200   000240   SCOPE
266     000202   022727   000001   000000   CMP     #1,#0       ;SOURCE GREATER THAN DESTINATION
267     000210   001001   BNE     .+4
268     000212   000000   HLT
269     000214   003001   BGT     .+4       ;SHOULD NOT BE EQUAL
270     000216   000000   HLT
271     000220   002001   BGE     .+4       ;BGTA FAILED
272     000222   000000   HLT
273     000224   000240   SCOPE
274     000226   022727   000000   000001   CMP     #0,#1       ;SOURCE LESS THAN DESTINATION
275     000234   001001   BNE     .+4
276     000236   000000   HLT
277     000240   002401   BLT     .+4       ;SHOULD NOT BE EQUAL
278     000242   000000   HLT
279     000244   003401   BLE     .+4       ;0 IS LESS THAN 1
280     000246   000000   HLT
281     000250   000240   SCOPE
282     000252   022727   177777   100000   CMP     #177777,#100000 ;SOURCE GREATER THAN DESTINATION
283     000260   001001   BNE     .+4
284     000262   000000   HLT
285     000264   003001   BGT     .+4       ;SHOULD NOT BE EQUAL
286     000266   000000   HLT
287     000270   002001   BGE     .+4       ;BGTA FAILED
288     000272   000000   HLT
289     000274   000240   SCOPE
290     000276   022727   100000   177777   CMP     #100000,#177777 ;SOURCE LESS THAN DESTINATION
291     000304   001001   BNE     .+4
292     000306   000000   HLT
293     000310   002401   BLT     .+4       ;SHOULD NOT BE EQUAL
294     000312   000000   HLT
295     000314   003401   BLE     .+4       ;100000 IS LESS THAN 177777
296     000316   000000   HLT
297     000320   000240   SCOPE
298     000322   022727   077777   000000   CMP     #077777,#000000 ;SOURCE GREATER THAN DESTINATION
299     000330   001001   BNE     .+4
300     000332   000000   HLT
301     000334   003001   BGT     .+4       ;SHOULD NOT BE EQUAL
302     000336   000000   HLT
303     000340   002001   BGE     .+4       ;BGTA FAILED
304     000342   000000   HLT
305     000344   000240   SCOPE
306     000346   022727   000000   077777   CMP     #000000,#077777 ;SOURCE LESS THAN DESTINATION
307     000354   001001   BNE     .+4
  
```

308	000356	000000			HLT					;SHOULD NOT BE EQUAL
309	000360	002401			BLT	.+4				
310	000362	000000			HLT					;000000 IS LESS THAN 077777
311	000364	003401			BLE	.+4				
312	000366	000000			HLT					;000000 IS LESS THAN 077777
313	000370	000240			SCOPE					
314	000372	022727	000000	177777	CMP	#0,#177777				;SOURCE GREATER THAN DESTINATION
315	000400	001001			BNE	.+4				
316	000402	000000			HLT					;SHOULD NOT BE EQUAL
317	000404	003001			BGT	.+4				
318	000406	000000			HLT					;BGTA FAILED
319	000410	002001			BGE	.+4				
320	000412	000000			HLT					;BGEA FAILED
321	000414	000240			SCOPE					
322	000416	022727	177777	000000	CMP	#177777,#0				;SOURCE LESS THAN DESTINATION
323	000424	001001			BNE	.+4				
324	000426	000000			HLT					;SHOULD NOT BE EQUAL
325	000430	002401			BLT	.+4				
326	000432	000000			HLT					;177777 IS LESS THAN 0
327	000434	003401			BLE	.+4				
328	000436	000000			HLT					;177777 IS LESS THAN 0
329	000440	000240			SCOPE					
330	000442	022727	077777	100000	CMP	#77777,#100000				;SOURCE GREATER THAN DESTINATION
331	000450	001001			BNE	.+4				
332	000452	000000			HLT					;SHOULD NOT BE EQUAL
333	000454	003001			BGT	.+4				
334	000456	000000			HLT					;BGTA FAILED
335	000460	002001			BGE	.+4				
336	000462	000000			HLT					;BGEA FAILED
337	000464	000240			SCOPE					
338	000466	022727	100000	077777	CMP	#100000,#77777				;SOURCE LESS THAN DESTINATION
339	000474	001001			BNE	.+4				
340	000476	000000			HLT					;SHOULD NOT BE EQUAL
341	000500	002401			BLT	.+4				
342	000502	000000			HLT					;100000 IS LESS THAN 77777
343	000504	003401			BLE	.+4				
344	000506	000000			HLT					;100000 IS LESS THAN 77777
345										
346	000510	000240			SCOPE					
347	000512	122727	000001	000000	CMPB	#1,#0				;SOURCE GREATER THAN DESTINATION
348	000520	001001			BNE	.+4				
349	000522	000000			HLT					;SHOULD NOT BE EQUAL
350	000524	003001			BGT	.+4				
351	000526	000000			HLT					;BGTA FAILED
352	000530	002001			BGE	.+4				
353	000532	000000			HLT					;BGEA FAILED
354	000534	000240			SCOPE					
355	000536	122727	000000	000001	CMPB	#0,#1				;SOURCE LESS THAN DESTINATION
356	000544	001001			BNE	.+4				
357	000546	000000			HLT					;SHOULD NOT BE EQUAL
358	000550	002401			BLT	.+4				
359	000552	000000			HLT					;0 IS LESS THAN 1
360	000554	003401			BLE	.+4				
361	000556	000000			HLT					;0 IS LESS THAN 1
362	000560	000240			SCOPE					
363	000562	122727	000124	000123	CMPB	#124,#123				;SOURCE GREATER THAN DESTINATION

K01

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 11
DOGA.P11

364	000570	001001		BNE	+.4	
365	000572	000000		HLT		; SHOULD NOT BE EQUAL
366	000574	003001		BGT	+.4	
367	000576	000000		HLT		; BGTA FAILED
368	000600	002001		BGE	+.4	
369	000602	000000		HLT		; BGEA FAILED
370	000604	000240		SCOPE		
371	000606	122727	000123 000124	CMPB	#123, #124	; SOURCE LESS THAN DESTINATION
372	000614	001001		BNE	+.4	
373	000616	000000		HLT		; SHOULD NOT BE EQUAL
374	000620	002401		BLT	+.4	
375	000622	000000		HLT		; 123 IS LESS THAN 124
376	000624	003401		BLE	+.4	
377	000626	000000		HLT		; 123 IS LESS THAN 124
378	000630	000240		SCOPE		
379	000632	122727	000177 000300	CMPB	#177, #300	; SOURCE GREATER THAN DESTINATION
380	000640	001001		BNE	+.4	
381	000642	000000		HLT		; SHOULD NOT BE EQUAL
382	000644	003001		BGT	+.4	
383	000646	000000		HLT		; BGTA FAILED
384	000650	002001		BGE	+.4	
385	000652	000000		HLT		; BGEA FAILED
386	000654	000240		SCOPE		
387	000656	122727	000300 000177	CMPB	#300, #177	; SOURCE LESS THAN DESTINATION
388	000664	001001		BNE	+.4	
389	000666	000000		HLT		; SHOULD NOT BE EQUAL
390	000670	002401		BLT	+.4	
391	000672	000000		HLT		; 300 IS LESS THAN 177
392	000674	003401		BLE	+.4	
393	000676	000000		HLT		; 300 IS LESS THAN 177
394	000700	000240		SCOPE		
395	000702	122727	000001 000300	CMPB	#1, #300	; SOURCE GREATER THAN DESTINATION
396	000710	001001		BNE	+.4	
397	000712	000000		HLT		; SHOULD NOT BE EQUAL
398	000714	003001		BGT	+.4	
399	000716	000000		HLT		; BGTA FAILED
400	000720	002001		BGE	+.4	
401	000722	000000		HLT		; BGEA FAILED
402	000724	000240		SCOPE		
403	000726	122727	000300 000001	CMPB	#300, #1	; SOURCE LESS THAN DESTINATION
404	000734	001001		BNE	+.4	
405	000736	000000		HLT		; SHOULD NOT BE EQUAL
406	000740	002401		BLT	+.4	
407	000742	000000		HLT		; 300 IS LESS THAN 1
408	000744	003401		BLE	+.4	
409	000746	000000		HLT		; 300 IS LESS THAN 1
410	000750	000240		SCOPE		
411	000752	122727	000377 000300	CMPB	#377, #300	; SOURCE GREATER THAN DESTINATION
412	000760	001001		BNE	+.4	
413	000762	000000		HLT		; SHOULD NOT BE EQUAL
414	000764	003001		BGT	+.4	
415	000766	000000		HLT		; BGTA FAILED
416	000770	002001		BGE	+.4	
417	000772	000000		HLT		; BGEA FAILED
418	000774	000240		SCOPE		
419	000776	122727	000300 000377	CMPB	#300, #377	; SOURCE LESS THAN DESTINATION

420	001004	001001			BNE	+.4	
421	001006	000000			HLT		; SHOULD NOT BE EQUAL
422	001010	002401			BLT	+.4	
423	001012	000000			HLT		; 300 IS LESS THAN 377
424	001014	003401			BLE	+.4	
425	001016	000000			HLT		; 300 IS LESS THAN 377
426	001020	000240			SCOPE		
427	001022	122727	000000	000377	CMPB	#0, #377	; SOURCE GREATER THAN DESTINATION
428	001030	001001			BNE	+.4	
429	001032	000000			HLT		; SHOULD NOT BE EQUAL
430	001034	003001			BGT	+.4	
431	001036	000000			HLT		; BGTA FAILED
432	001040	002001			BGE	+.4	
433	001042	000000			HLT		; BGEA FAILED
434	001044	000240			SCOPE		
435	001046	122727	000377	000000	CMPB	#377, #0	; SOURCE LESS THAN DESTINATION
436	001054	001001			BNE	+.4	
437	001056	000000			HLT		; SHOULD NOT BE EQUAL
438	001060	002401			BLT	+.4	
439	001062	000000			HLT		; 377 IS LESS THAN 0
440	001064	003401			BLE	+.4	
441	001066	000000			HLT		; 377 IS LESS THAN 0
442	001070	000240			SCOPE		
443	001072	122727	000001	000377	CMPB	#1, #377	; SOURCE GREATER THAN DESTINATION
444	001100	001001			BNE	+.4	
445	001102	000000			HLT		; SHOULD NOT BE EQUAL
446	001104	003001			BGT	+.4	
447	001106	000000			HLT		; BGTA FAILED
448	001110	002001			BGE	+.4	
449	001112	000000			HLT		; BGEA FAILED
450	001114	000240			SCOPE		
451	001116	122727	000377	000001	CMPB	#377, #1	; SOURCE LESS THAN DESTINATION
452	001124	001001			BNE	+.4	
453	001126	000000			HLT		; SHOULD NOT BE EQUAL
454	001130	002401			BLT	+.4	
455	001132	000000			HLT		; 377 IS LESS THAN 1
456	001134	003401			BLE	+.4	
457	001136	000000			HLT		; 377 IS LESS THAN 1
458							
459		000000			N=0		
460		177777			M=N-1		
461	001140	000240			SCOPE		
462	001142	022727	000000	177777	CMP	#0, #177777	; SOURCE GREATER THAN DESTINATION
463	001150	001001			BNE	+.4	
464	001152	000000			HLT		; SHOULD NOT BE EQUAL
465	001154	003001			BGT	+.4	
466	001156	000000			HLT		; BGTA FAILED
467	001160	002001			BGE	+.4	
468	001162	000000			HLT		; BGEA FAILED
469	001164	000240			SCOPE		
470	001166	022727	177777	000000	CMP	#177777, #0	; SOURCE LESS THAN DESTINATION
471	001174	001001			BNE	+.4	
472	001176	000000			HLT		; SHOULD NOT BE EQUAL
473	001200	002401			BLT	+.4	
474	001202	000000			HLT		; 177777 IS LESS THAN 0
475	001204	003401			BLE	+.4	

476	001206	000000			HLT		;177777 IS LESS THAN 0
477		050505			N=N+50505		
478		050504			M=N-1		
479	001210	000240			SCOPE		
480	001212	022727	050505	050504	CMP	#50505,#50504	;SOURCE GREATER THAN DESTINATION
481	001220	001001			BNE	.+4	
482	001222	000000			HLT		;SHOULD NOT BE EQUAL
483	001224	003001			BGT	.+4	
484	001226	000000			HLT		;BGTA FAILED
485	001230	002001			BGE	.+4	
486	001232	000000			HLT		;BGEA FAILED
487	001234	000240			SCOPE		
488	001236	022727	050504	050505	CMP	#50504,#50505	;SOURCE LESS THAN DESTINATION
489	001244	001001			BNE	.+4	
490	001246	000000			HLT		;SHOULD NOT BE EQUAL
491	001250	002401			BLT	.+4	
492	001252	000000			HLT		;50504 IS LESS THAN 50505
493	001254	003401			BLE	.+4	
494	001256	000000			HLT		;50504 IS LESS THAN 50505
495		121212			N=N+50505		
496		121211			M=N-1		
497	001260	000240			SCOPE		
498	001262	022727	121212	121211	CMP	#121212,#121211	;SOURCE GREATER THAN DESTINATION
499	001270	001001			BNE	.+4	
500	001272	000000			HLT		;SHOULD NOT BE EQUAL
501	001274	003001			BGT	.+4	
502	001276	000000			HLT		;BGTA FAILED
503	001300	002001			BGE	.+4	
504	001302	000000			HLT		;BGEA FAILED
505	001304	000240			SCOPE		
506	001306	022727	121211	121212	CMP	#121211,#121212	;SOURCE LESS THAN DESTINATION
507	001314	001001			BNE	.+4	
508	001316	000000			HLT		;SHOULD NOT BE EQUAL
509	001320	002401			BLT	.+4	
510	001322	000000			HLT		;121211 IS LESS THAN 121212
511	001324	003401			BLE	.+4	
512	001326	000000			HLT		;121211 IS LESS THAN 121212
513		171717			N=N+50505		
514		171716			M=N-1		
515	001330	000240			SCOPE		
516	001332	022727	171717	171716	CMP	#171717,#171716	;SOURCE GREATER THAN DESTINATION
517	001340	001001			BNE	.+4	
518	001342	000000			HLT		;SHOULD NOT BE EQUAL
519	001344	003001			BGT	.+4	
520	001346	000000			HLT		;BGTA FAILED
521	001350	002001			BGE	.+4	
522	001352	000000			HLT		;BGEA FAILED
523	001354	000240			SCOPE		
524	001356	022727	171716	171717	CMP	#171716,#171717	;SOURCE LESS THAN DESTINATION
525	001364	001001			BNE	.+4	
526	001366	000000			HLT		;SHOULD NOT BE EQUAL
527	001370	002401			BLT	.+4	
528	001372	000000			HLT		;171716 IS LESS THAN 171717
529	001374	003401			BLE	.+4	
530	001376	000000			HLT		;171716 IS LESS THAN 171717
531		042424			N=N+50505		

532		042423			M=N-1		
533	001400	000240			SCOPE		
534	001402	022727	042424	042423	CMP	#42424, #42423	;SOURCE GREATER THAN DESTINATION
535	001410	001001			BNE	.+4	
536	001412	000000			HLT		;SHOULD NOT BE EQUAL
537	001414	003001			BGT	.+4	
538	001416	000000			HLT		;BGTA FAILED
539	001420	002001			BGE	.+4	
540	001422	000000			HLT		;BGEA FAILED
541	001424	000240			SCOPE		
542	001426	022727	042423	042424	CMP	#42423, #42424	;SOURCE LESS THAN DESTINATION
543	001434	001001			BNE	.+4	
544	001436	000000			HLT		;SHOULD NOT BE EQUAL
545	001440	002401			BLT	.+4	
546	001442	000000			HLT		;42423 IS LESS THAN 42424
547	001444	003401			BLE	.+4	
548	001446	000000			HLT		;42423 IS LESS THAN 42424
549		113131			N=N+50505		
550		113130			M=N-1		
551	001450	000240			SCOPE		
552	001452	022727	113131	113130	CMP	#113131, #113130	;SOURCE GREATER THAN DESTINATION
553	001460	001001			BNE	.+4	
554	001462	000000			HLT		;SHOULD NOT BE EQUAL
555	001464	003001			BGT	.+4	
556	001466	000000			HLT		;BGTA FAILED
557	001470	002001			BGE	.+4	
558	001472	000000			HLT		;BGEA FAILED
559	001474	000240			SCOPE		
560	001476	022727	113130	113131	CMP	#113130, #113131	;SOURCE LESS THAN DESTINATION
561	001504	001001			BNE	.+4	
562	001506	000000			HLT		;SHOULD NOT BE EQUAL
563	001510	002401			BLT	.+4	
564	001512	000000			HLT		;113130 IS LESS THAN 113131
565	001514	003401			BLE	.+4	
566	001516	000000			HLT		;113130 IS LESS THAN 113131
567		163636			N=N+50505		
568		163635			M=N-1		
569	001520	000240			SCOPE		
570	001522	022727	163636	163635	CMP	#163636, #163635	;SOURCE GREATER THAN DESTINATION
571	001530	001001			BNE	.+4	
572	001532	000000			HLT		;SHOULD NOT BE EQUAL
573	001534	003001			BGT	.+4	
574	001536	000000			HLT		;BGTA FAILED
575	001540	002001			BGE	.+4	
576	001542	000000			HLT		;BGEA FAILED
577	001544	000240			SCOPE		
578	001546	022727	163635	163636	CMP	#163635, #163636	;SOURCE LESS THAN DESTINATION
579	001554	001001			BNE	.+4	
580	001556	000000			HLT		;SHOULD NOT BE EQUAL
581	001560	002401			BLT	.+4	
582	001562	000000			HLT		;163635 IS LESS THAN 163636
583	001564	003401			BLE	.+4	
584	001566	000000			HLT		;163635 IS LESS THAN 163636
585		034343			N=N+50505		
586		034342			M=N-1		
587	001570	000240			SCOPE		

```

588 001572 022727 034343 034342 CMP #34343,#34342 ;SOURCE GREATER THAN DESTINATION
589 001600 001001 BNE .+4
590 001602 000000 HLT ;SHOULD NOT BE EQUAL
591 001604 003001 BGT .+4
592 001606 000000 HLT ;BGTA FAILED
593 001610 002001 BGE .+4
594 001612 000000 HLT ;BGEA FAILED
595 001614 000240 SCOPE
596 001616 022727 034342 034343 CMP #34342,#34343 ;SOURCE LESS THAN DESTINATION
597 001624 001001 BNE .+4
598 001626 000000 HLT ;SHOULD NOT BE EQUAL
599 001630 002401 BLT .+4
600 001632 000000 HLT ;34342 IS LESS THAN 34343
601 001634 003401 BLE .+4
602 001636 000000 HLT ;34342 IS LESS THAN 34343
603 105050 N=N+50505
604 105047 M=N-1
605 001640 000240 SCOPE
606 001642 022727 105050 105047 CMP #105050,#105047 ;SOURCE GREATER THAN DESTINATION
607 001650 001001 BNE .+4
608 001652 000000 HLT ;SHOULD NOT BE EQUAL
609 001654 003001 BGT .+4
610 001656 000000 HLT ;BGTA FAILED
611 001660 002001 BGE .+4
612 001662 000000 HLT ;BGEA FAILED
613 001664 000240 SCOPE
614 001666 022727 105047 105050 CMP #105047,#105050 ;SOURCE LESS THAN DESTINATION
615 001674 001001 BNE .+4
616 001676 000000 HLT ;SHOULD NOT BE EQUAL
617 001700 002401 BLT .+4
618 001702 000000 HLT ;105047 IS LESS THAN 105050
619 001704 003401 BLE .+4
620 001706 000000 HLT ;105047 IS LESS THAN 105050
621 155555 N=N+50505
622 155554 M=N-1
623 001710 000240 SCOPE
624 001712 022727 155555 155554 CMP #155555,#155554 ;SOURCE GREATER THAN DESTINATION
625 001720 001001 BNE .+4
626 001722 000000 HLT ;SHOULD NOT BE EQUAL
627 001724 003001 BGT .+4
628 001726 000000 HLT ;BGTA FAILED
629 001730 002001 BGE .+4
630 001732 000000 HLT ;BGEA FAILED
631 001734 000240 SCOPE
632 001736 022727 155554 155555 CMP #155554,#155555 ;SOURCE LESS THAN DESTINATION
633 001744 001001 BNE .+4
634 001746 000000 HLT ;SHOULD NOT BE EQUAL
635 001750 002401 BLT .+4
636 001752 000000 HLT ;155554 IS LESS THAN 155555
637 001754 003401 BLE .+4
638 001756 000000 HLT ;155554 IS LESS THAN 155555
639 026262 N=N+50505
640 026261 M=N-1
641 001760 000240 SCOPE
642 001762 022727 026262 026261 CMP #26262,#26261 ;SOURCE GREATER THAN DESTINATION
643 001770 001001 BNE .+4

```

644	001772	000000			HLT			; SHOULD NOT BE EQUAL
645	001774	003001			BGT	.+4		
646	001776	000000			HLT			; BGTA FAILED
647	002000	002001			BGE	.+4		
648	002002	000000			HLT			; BGEA FAILED
649	002004	000240			SCOPE			
650	002006	022727	026261	026262	CMP	#26261, #26262		; SOURCE LESS THAN DESTINATION
651	002014	001001			BNE	.+4		
652	002016	000000			HLT			; SHOULD NOT BE EQUAL
653	002020	002401			BLT	.+4		
654	002022	000000			HLT			; 26261 IS LESS THAN 26262
655	002024	003401			BLE	.+4		
656	002026	000000			HLT			; 26261 IS LESS THAN 26262
657		076767			N=N+50505			
658		076766			M=N-1			
659	002030	000240			SCOPE			
660	002032	022727	076767	076766	CMP	#76767, #76766		; SOURCE GREATER THAN DESTINATION
661	002040	001001			BNE	.+4		
662	002042	000000			HLT			; SHOULD NOT BE EQUAL
663	002044	003001			BGT	.+4		
664	002046	000000			HLT			; BGTA FAILED
665	002050	002001			BGE	.+4		
666	002052	000000			HLT			; BGEA FAILED
667	002054	000240			SCOPE			
668	002056	022727	076766	076767	CMP	#76766, #76767		; SOURCE LESS THAN DESTINATION
669	002064	001001			BNE	.+4		
670	002066	000000			HLT			; SHOULD NOT BE EQUAL
671	002070	002401			BLT	.+4		
672	002072	000000			HLT			; 76766 IS LESS THAN 76767
673	002074	003401			BLE	.+4		
674	002076	000000			HLT			; 76766 IS LESS THAN 76767
675		147474			N=N+50505			
676		147473			M=N-1			
677	002100	000240			SCOPE			
678	002102	022727	147474	147473	CMP	#147474, #147473		; SOURCE GREATER THAN DESTINATION
679	002110	001001			BNE	.+4		
680	002112	000000			HLT			; SHOULD NOT BE EQUAL
681	002114	003001			BGT	.+4		
682	002116	000000			HLT			; BGTA FAILED
683	002120	002001			BGE	.+4		
684	002122	000000			HLT			; BGEA FAILED
685	002124	000240			SCOPE			
686	002126	022727	147473	147474	CMP	#147473, #147474		; SOURCE LESS THAN DESTINATION
687	002134	001001			BNE	.+4		
688	002136	000000			HLT			; SHOULD NOT BE EQUAL
689	002140	002401			BLT	.+4		
690	002142	000000			HLT			; 147473 IS LESS THAN 147474
691	002144	003401			BLE	.+4		
692	002146	000000			HLT			; 147473 IS LESS THAN 147474
693		020201			N=N+50505			
694		020200			M=N-1			
695	002150	000240			SCOPE			
696	002152	022727	020201	020200	CMP	#20201, #20200		; SOURCE GREATER THAN DESTINATION
697	002160	001001			BNE	.+4		
698	002162	000000			HLT			; SHOULD NOT BE EQUAL
699	002164	003001			BGT	.+4		

700	002166	000000			HLT			;BGTA FAILED
701	002170	002001			BGE	.+4		
702	002172	000000			HLT			;BGEA FAILED
703	002174	000240			SCOPE			
704	002176	022727	020200	020201	CMP	#20200, #20201		;SOURCE LESS THAN DESTINATION
705	002204	001001			BNE	.+4		
706	002206	000300			HLT			;SHOULD NOT BE EQUAL
707	002210	002401			BLT	.+4		
708	002212	000000			HLT			;20200 IS LESS THAN 20201
709	002214	003401			BLE	.+4		
710	002216	000000			HLT			;20200 IS LESS THAN 20201
711		070706			N=N+50505			
712		070705			M=N-1			
713	002220	000240			SCOPE			
714	002222	022727	070706	070705	CMP	#70706, #70705		;SOURCE GREATER THAN DESTINATION
715	002230	001001			BNE	.+4		
716	002232	000000			HLT			;SHOULD NOT BE EQUAL
717	002234	003001			BGT	.+4		
718	002236	000000			HLT			;BGTA FAILED
719	002240	002001			BGE	.+4		
720	002242	000000			HLT			;BGEA FAILED
721	002244	000240			SCOPE			
722	002246	022727	070705	070706	CMP	#70705, #70706		;SOURCE LESS THAN DESTINATION
723	002254	001001			BNE	.+4		
724	002256	000000			HLT			;SHOULD NOT BE EQUAL
725	002260	002401			BLT	.+4		
726	002262	000000			HLT			;70705 IS LESS THAN 70706
727	002264	003401			BLE	.+4		
728	002266	000000			HLT			;70705 IS LESS THAN 70706
729		141413			N=N+50505			
730		141412			M=N-1			
731	002270	000240			SCOPE			
732	002272	022727	141413	141412	CMP	#141413, #141412		;SOURCE GREATER THAN DESTINATION
733	002300	001001			BNE	.+4		
734	002302	000000			HLT			;SHOULD NOT BE EQUAL
735	002304	003001			BGT	.+4		
736	002306	000000			HLT			;BGTA FAILED
737	002310	002001			BGE	.+4		
738	002312	000000			HLT			;BGEA FAILED
739	002314	000240			SCOPE			
740	002316	022727	141412	141413	CMP	#141412, #141413		;SOURCE LESS THAN DESTINATION
741	002324	001001			BNE	.+4		
742	002326	000000			HLT			;SHOULD NOT BE EQUAL
743	002330	002401			BLT	.+4		
744	002332	000000			HLT			;141412 IS LESS THAN 141413
745	002334	003401			BLE	.+4		
746	002336	000000			HLT			;141412 IS LESS THAN 141413
747		012120			N=N+50505			
748		012117			M=N-1			
749	002340	000240			SCOPE			
750	002342	022727	012120	012117	CMP	#12120, #12117		;SOURCE GREATER THAN DESTINATION
751	002350	001001			BNE	.+4		
752	002352	000000			HLT			;SHOULD NOT BE EQUAL
753	002354	003001			BGT	.+4		
754	002356	000000			HLT			;BGTA FAILED
755	002360	002001			BGE	.+4		

756	002362	000000			HLT			;BGEA FAILED
757	002364	000240			SCOPE			
758	002366	022727	012117	012120	CMP	#12117,#12120		;SOURCE LESS THAN DESTINATION
759	002374	001001			BNE	.+4		
760	002376	000000			HLT			;SHOULD NOT BE EQUAL
761	002400	002401			BLT	.+4		
762	002402	000000			HLT			;12117 IS LESS THAN 12120
763	002404	003401			BLE	.+4		
764	002406	000000			HLT			;12117 IS LESS THAN 12120
765		062625			N=N+50505			
766		062624			M=N-1			
767	002410	000240			SCOPE			
768	002412	022727	062625	062624	CMP	#62625,#62624		;SOURCE GREATER THAN DESTINATION
769	002420	001001			BNE	.+4		
770	002422	000000			HLT			;SHOULD NOT BE EQUAL
771	002424	003001			BGT	.+4		
772	002426	000000			HLT			;BGTA FAILED
773	002430	002001			BGE	.+4		
774	002432	000000			HLT			;BGEA FAILED
775	002434	000240			SCOPE			
776	002436	022727	062624	062625	CMP	#62624,#62625		;SOURCE LESS THAN DESTINATION
777	002444	001001			BNE	.+4		
778	002446	000000			HLT			;SHOULD NOT BE EQUAL
779	002450	002401			BLT	.+4		
780	002452	000000			HLT			;62624 IS LESS THAN 62625
781	002454	003401			BLE	.+4		
782	002456	000000			HLT			;62624 IS LESS THAN 62625
783		133332			N=N+50505			
784		133331			M=N-1			
785	002460	000240			SCOPE			
786	002462	022727	133332	133331	CMP	#133332,#133331		;SOURCE GREATER THAN DESTINATION
787	002470	001001			BNE	.+4		
788	002472	000000			HLT			;SHOULD NOT BE EQUAL
789	002474	003001			BGT	.+4		
790	002476	000000			HLT			;BGTA FAILED
791	002500	002001			BGE	.+4		
792	002502	000000			HLT			;BGEA FAILED
793	002504	000240			SCOPE			
794	002506	022727	133331	133332	CMP	#133331,#133332		;SOURCE LESS THAN DESTINATION
795	002514	001001			BNE	.+4		
796	002516	000000			HLT			;SHOULD NOT BE EQUAL
797	002520	002401			BLT	.+4		
798	002522	000000			HLT			;133331 IS LESS THAN 133332
799	002524	003401			BLE	.+4		
800	002526	000000			HLT			;133331 IS LESS THAN 133332
801		004037			N=N+50505			
802		004036			M=N-1			
803	002530	000240			SCOPE			
804	002532	022727	004037	004036	CMP	#4037,#4036		;SOURCE GREATER THAN DESTINATION
805	002540	001001			BNE	.+4		
806	002542	000000			HLT			;SHOULD NOT BE EQUAL
807	002544	003001			BGT	.+4		
808	002546	000000			HLT			;BGTA FAILED
809	002550	002001			BGE	.+4		
810	002552	000000			HLT			;BGEA FAILED
811	002554	000240			SCOPE			

812	002556	022727	004036	004037	CMP	#4036, #4037	;SOURCE LESS THAN DESTINATION
813	002564	001001			BNE	.+4	
814	002566	000000			HLT		;SHOULD NOT BE EQUAL
815	002570	002401			BLT	.+4	
816	002572	000000			HLT		;4036 IS LESS THAN 4037
817	002574	003401			BLE	.+4	
818	002576	000000			HLT		;4036 IS LESS THAN 4037
819		054544			N=N+50505		
820		054543			M=N-1		
821	002600	000240			SCOPE		
822	002602	022727	054544	054543	CMP	#54544, #54543	;SOURCE GREATER THAN DESTINATION
823	002610	001001			BNE	.+4	
824	002612	000000			HLT		;SHOULD NOT BE EQUAL
825	002614	003001			BGT	.+4	
826	002616	000000			HLT		;BGTA FAILED
827	002620	002001			BGE	.+4	
828	002622	000000			HLT		;BGEA FAILED
829	002624	000240			SCOPE		
830	002626	022727	054543	054544	CMP	#54543, #54544	;SOURCE LESS THAN DESTINATION
831	002634	001001			BNE	.+4	
832	002636	000000			HLT		;SHOULD NOT BE EQUAL
833	002640	002401			BLT	.+4	
834	002642	000000			HLT		;54543 IS LESS THAN 54544
835	002644	003401			BLE	.+4	
836	002646	000000			HLT		;54543 IS LESS THAN 54544
837		125251			N=N+50505		
838		125250			M=N-1		
839	002650	000240			SCOPE		
840	002652	022727	125251	125250	CMP	#125251, #125250	;SOURCE GREATER THAN DESTINATION
841	002660	001001			BNE	.+4	
842	002662	000000			HLT		;SHOULD NOT BE EQUAL
843	002664	003001			BGT	.+4	
844	002666	000000			HLT		;BGTA FAILED
845	002670	002001			BGE	.+4	
846	002672	000000			HLT		;BGEA FAILED
847	002674	000240			SCOPE		
848	002676	022727	125250	125251	CMP	#125250, #125251	;SOURCE LESS THAN DESTINATION
849	002704	001001			BNE	.+4	
850	002706	000000			HLT		;SHOULD NOT BE EQUAL
851	002710	002401			BLT	.+4	
852	002712	000000			HLT		;125250 IS LESS THAN 125251
853	002714	003401			BLE	.+4	
854	002716	000000			HLT		;125250 IS LESS THAN 125251
855		175756			N=N+50505		
856		175755			M=N-1		
857	002720	000240			SCOPE		
858	002722	022727	175756	175755	CMP	#175756, #175755	;SOURCE GREATER THAN DESTINATION
859	002730	001001			BNE	.+4	
860	002732	000000			HLT		;SHOULD NOT BE EQUAL
861	002734	003001			BGT	.+4	
862	002736	000000			HLT		;BGTA FAILED
863	002740	002001			BGE	.+4	
864	002742	000000			HLT		;BGEA FAILED
865	002744	000240			SCOPE		
866	002746	022727	175755	175756	CMP	#175755, #175756	;SOURCE LESS THAN DESTINATION
867	002754	001001			BNE	.+4	

868	002756	000000		HLT		; SHOULD NOT BE EQUAL
869	002760	002401		BLT	.+4	
870	002762	000000		HLT		; 175755 IS LESS THAN 175756
871	002764	003401		BLE	.+4	
872	002766	000000		HLT		; 175755 IS LESS THAN 175756
873		046463		N=N+50505		
874		046462		M=N-1		
875	002770	000240		SCOPE		
876	002772	022727	046463 046462	CMP	#46463, #46462	; SOURCE GREATER THAN DESTINATION
877	003000	001001		BNE	.+4	
878	003002	000000		HLT		; SHOULD NOT BE EQUAL
879	003004	003001		BGT	.+4	
880	003006	000000		HLT		; BGTA FAILED
881	003010	002001		BGE	.+4	
882	003012	000000		HLT		; BGEA FAILED
883	003014	000240		SCOPE		
884	003016	022727	046462 046463	CMP	#46462, #46463	; SOURCE LESS THAN DESTINATION
885	003024	001001		BNE	.+4	
886	003026	000000		HLT		; SHOULD NOT BE EQUAL
887	003030	002401		BLT	.+4	
888	003032	000000		HLT		; 46462 IS LESS THAN 46463
889	003034	003401		BLE	.+4	
890	003036	000000		HLT		; 46462 IS LESS THAN 46463
891		117170		N=N+50505		
892		117167		M=N-1		
893	003040	000240		SCOPE		
894	003042	022727	117170 117167	CMP	#117170, #117167	; SOURCE GREATER THAN DESTINATION
895	003050	001001		BNE	.+4	
896	003052	000000		HLT		; SHOULD NOT BE EQUAL
897	003054	003001		BGT	.+4	
898	003056	000000		HLT		; BGTA FAILED
899	003060	002001		BGE	.+4	
900	003062	000000		HLT		; BGEA FAILED
901	003064	000240		SCOPE		
902	003066	022727	117167 117170	CMP	#117167, #117170	; SOURCE LESS THAN DESTINATION
903	003074	001001		BNE	.+4	
904	003076	000000		HLT		; SHOULD NOT BE EQUAL
905	003100	002401		BLT	.+4	
906	003102	000000		HLT		; 117167 IS LESS THAN 117170
907	003104	003401		BLE	.+4	
908	003106	000000		HLT		; 117167 IS LESS THAN 117170
909		167675		N=N+50505		
910		167674		M=N-1		
911	003110	000240		SCOPE		
912	003112	022727	167675 167674	CMP	#167675, #167674	; SOURCE GREATER THAN DESTINATION
913	003120	001001		BNE	.+4	
914	003122	000000		HLT		; SHOULD NOT BE EQUAL
915	003124	003001		BGT	.+4	
916	003126	000000		HLT		; BGTA FAILED
917	003130	002001		BGE	.+4	
918	003132	000000		HLT		; BGEA FAILED
919	003134	000240		SCOPE		
920	003136	022727	167674 167675	CMP	#167674, #167675	; SOURCE LESS THAN DESTINATION
921	003144	001001		BNE	.+4	
922	003146	000000		HLT		; SHOULD NOT BE EQUAL
923	003150	002401		BLT	.+4	

924	003152	000000		HLT		;167674 IS LESS THAN 167675
925	003154	003401		BLE	.+4	
926	003156	000000		HLT		;167674 IS LESS THAN 167675
927		040402		N=N+50505		
928		040401		M=N-1		
929	003160	000240		SCOPE		
930	003162	022727	040402 040401	CMP	#40402,#40401	;SOURCE GREATER THAN DESTINATION
931	003170	001001		BNE	.+4	
932	003172	000000		HLT		;SHOULD NOT BE EQUAL
933	003174	003001		BGT	.+4	
934	003176	000000		HLT		;BGTA FAILED
935	003200	002001		BGE	.+4	
936	003202	000000		HLT		;BGEA FAILED
937	003204	000240		SCOPE		
938	003206	022727	040401 040402	CMP	#40401,#40402	;SOURCE LESS THAN DESTINATION
939	003214	001001		BNE	.+4	
940	003216	000000		HLT		;SHOULD NOT BE EQUAL
941	003220	002401		BLT	.+4	
942	003222	000000		HLT		;40401 IS LESS THAN 40402
943	003224	003401		BLE	.+4	
944	003226	000000		HLT		;40401 IS LESS THAN 40402
945		111107		N=N+50505		
946		111106		M=N-1		
947	003230	000240		SCOPE		
948	003232	022727	111107 111106	CMP	#111107,#111106	;SOURCE GREATER THAN DESTINATION
949	003240	001001		BNE	.+4	
950	003242	000000		HLT		;SHOULD NOT BE EQUAL
951	003244	003001		BGT	.+4	
952	003246	000000		HLT		;BGTA FAILED
953	003250	002001		BGE	.+4	
954	003252	000000		HLT		;BGEA FAILED
955	003254	000240		SCOPE		
956	003256	022727	111106 111107	CMP	#111106,#111107	;SOURCE LESS THAN DESTINATION
957	003264	001001		BNE	.+4	
958	003266	000000		HLT		;SHOULD NOT BE EQUAL
959	003270	002401		BLT	.+4	
960	003272	000000		HLT		;111106 IS LESS THAN 111107
961	003274	003401		BLE	.+4	
962	003276	000000		HLT		;111106 IS LESS THAN 111107
963		161614		N=N+50505		
964		161613		M=N-1		
965	003300	000240		SCOPE		
966	003302	022727	161614 161613	CMP	#161614,#161613	;SOURCE GREATER THAN DESTINATION
967	003310	001001		BNE	.+4	
968	003312	000000		HLT		;SHOULD NOT BE EQUAL
969	003314	003001		BGT	.+4	
970	003316	000000		HLT		;BGTA FAILED
971	003320	002001		BGE	.+4	
972	003322	000000		HLT		;BGEA FAILED
973	003324	000240		SCOPE		
974	003326	022727	161613 161614	CMP	#161613,#161614	;SOURCE LESS THAN DESTINATION
975	003334	001001		BNE	.+4	
976	003336	000000		HLT		;SHOULD NOT BE EQUAL
977	003340	002401		BLT	.+4	
978	003342	000000		HLT		;161613 IS LESS THAN 161614
979	003344	003401		BLE	.+4	

980	003346	000000		HLT		;161613 IS LESS THAN 161614
981		032321		N=N+50505		
982		032320		M=N-1		
983	003350	000240		SCOPE		
984	003352	022727	032321 032320	CMP	#32321, #32320	;SOURCE GREATER THAN DESTINATION
985	003360	001001		BNE	.+4	
986	003362	000000		HLT		;SHOULD NOT BE EQUAL
987	003364	003001		BGT	.+4	
988	003366	000000		HLT		;BGTA FAILED
989	003370	002001		BGE	.+4	
990	003372	000000		HLT		;BGEA FAILED
991	003374	000240		SCOPE		
992	003376	022727	032320 032321	CMP	#32320, #32321	;SOURCE LESS THAN DESTINATION
993	003404	001001		BNE	.+4	
994	003406	000000		HLT		;SHOULD NOT BE EQUAL
995	003410	002401		BLT	.+4	
996	003412	000000		HLT		;32320 IS LESS THAN 32321
997	003414	003401		BLE	.+4	
998	003416	000000		HLT		;32320 IS LESS THAN 32321
999		103026		N=N+50505		
1000		103025		M=N-1		
1001	003420	000240		SCOPE		
1002	003422	022727	103026 103025	CMP	#103026, #103025	;SOURCE GREATER THAN DESTINATION
1003	003430	001001		BNE	.+4	
1004	003432	000000		HLT		;SHOULD NOT BE EQUAL
1005	003434	003001		BGT	.+4	
1006	003436	000000		HLT		;BGTA FAILED
1007	003440	002001		BGE	.+4	
1008	003442	000000		HLT		;BGEA FAILED
1009	003444	000240		SCOPE		
1010	003446	022727	103025 103026	CMP	#103025, #103026	;SOURCE LESS THAN DESTINATION
1011	003454	001001		BNE	.+4	
1012	003456	000000		HLT		;SHOULD NOT BE EQUAL
1013	003460	002401		BLT	.+4	
1014	003462	000000		HLT		;103025 IS LESS THAN 103026
1015	003464	003401		BLE	.+4	
1016	003466	000000		HLT		;103025 IS LESS THAN 103026
1017		153533		N=N+50505		
1018		153532		M=N-1		
1019	003470	000240		SCOPE		
1020	003472	022727	153533 153532	CMP	#153533, #153532	;SOURCE GREATER THAN DESTINATION
1021	003500	001001		BNE	.+4	
1022	003502	000000		HLT		;SHOULD NOT BE EQUAL
1023	003504	003001		BGT	.+4	
1024	003506	000000		HLT		;BGTA FAILED
1025	003510	002001		BGE	.+4	
1026	003512	000000		HLT		;BGEA FAILED
1027	003514	000240		SCOPE		
1028	003516	022727	153532 153533	CMP	#153532, #153533	;SOURCE LESS THAN DESTINATION
1029	003524	001001		BNE	.+4	
1030	003526	000000		HLT		;SHOULD NOT BE EQUAL
1031	003530	002401		BLT	.+4	
1032	003532	000000		HLT		;153532 IS LESS THAN 153533
1033	003534	003401		BLE	.+4	
1034	003536	000000		HLT		;153532 IS LESS THAN 153533
1035		024240		N=N+50505		

J02

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 23
DOGA.P11

1036
1037

000000

N=0

1038		177777			M=N-1		
1039	003540	000240			SCOPE		
1040	003542	122727	000000	177777	CMPB	#0, #177777	;SOURCE GREATER THAN DESTINATION
1041	003550	001001			BNE	.+4	
1042	003552	000000			HLT		;SHOULD NOT BE EQUAL
1043	003554	003001			BGT	.+4	
1044	003556	000000			HLT		;BGTA FAILED
1045	003560	002001			BGE	.+4	
1046	003562	000000			HLT		;BGEA FAILED
1047	003564	000240			SCOPE		
1048	003566	122727	177777	000000	CMPB	#177777, #0	;SOURCE LESS THAN DESTINATION
1049	003574	001001			BNE	.+4	
1050	003576	000000			HLT		;SHOULD NOT BE EQUAL
1051	003600	002401			BLT	.+4	
1052	003602	000000			HLT		;177777 IS LESS THAN 0
1053	003604	003401			BLE	.+4	
1054	003606	000000			HLT		;177777 IS LESS THAN 0
1055		000003			N=N+3		
1056		000002			M=N-1		
1057	003610	000240			SCOPE		
1058	003612	122727	000003	000002	CMPB	#3, #2	;SOURCE GREATER THAN DESTINATION
1059	003620	001001			BNE	.+4	
1060	003622	000000			HLT		;SHOULD NOT BE EQUAL
1061	003624	003001			BGT	.+4	
1062	003626	000000			HLT		;BGTA FAILED
1063	003630	002001			BGE	.+4	
1064	003632	000000			HLT		;BGEA FAILED
1065	003634	000240			SCOPE		
1066	003636	122727	000002	000003	CMPB	#2, #3	;SOURCE LESS THAN DESTINATION
1067	003644	001001			BNE	.+4	
1068	003646	000000			HLT		;SHOULD NOT BE EQUAL
1069	003650	002401			BLT	.+4	
1070	003652	000000			HLT		;2 IS LESS THAN 3
1071	003654	003401			BLE	.+4	
1072	003656	000000			HLT		;2 IS LESS THAN 3
1073		000006			N=N+3		
1074		000005			M=N-1		
1075	003660	000240			SCOPE		
1076	003662	122727	000006	000005	CMPB	#6, #5	;SOURCE GREATER THAN DESTINATION
1077	003670	001001			BNE	.+4	
1078	003672	000000			HLT		;SHOULD NOT BE EQUAL
1079	003674	003001			BGT	.+4	
1080	003676	000000			HLT		;BGTA FAILED
1081	003700	002001			BGE	.+4	
1082	003702	000000			HLT		;BGEA FAILED
1083	003704	000240			SCOPE		
1084	003706	122727	000005	000006	CMPB	#5, #6	;SOURCE LESS THAN DESTINATION
1085	003714	001001			BNE	.+4	
1086	003716	000000			HLT		;SHOULD NOT BE EQUAL
1087	003720	002401			BLT	.+4	
1088	003722	000000			HLT		;5 IS LESS THAN 6
1089	003724	003401			BLE	.+4	
1090	003726	000000			HLT		;5 IS LESS THAN 6
1091		000011			N=N+3		
1092		000010			M=N-1		
1093	003730	000240			SCOPE		

1094	003732	122727	000011	000010	CMPB	#11,#10	;SOURCE GREATER THAN DESTINATION
1095	003740	001001			BNE	+.4	
1096	003742	000000			HLT		;SHOULD NOT BE EQUAL
1097	003744	003001			BGT	+.4	
1098	003746	000000			HLT		;BGTA FAILED
1099	003750	002001			BGE	+.4	
1100	003752	000000			HLT		;BGEA FAILED
1101	003754	000240			SCOPE		
1102	003756	122727	000010	000011	CMPB	#10,#11	;SOURCE LESS THAN DESTINATION
1103	003764	001001			BNE	+.4	
1104	003766	000000			HLT		;SHOULD NOT BE EQUAL
1105	003770	002401			BLT	+.4	
1106	003772	000000			HLT		;10 IS LESS THAN 11
1107	003774	003401			BLE	+.4	
1108	003776	000000			HLT		;10 IS LESS THAN 11
1109		000014			N=N+3		
1110		000013			M=N-1		
1111	004000	000240			SCOPE		
1112	004002	122727	000014	000013	CMPB	#14,#13	;SOURCE GREATER THAN DESTINATION
1113	004010	001001			BNE	+.4	
1114	004012	000000			HLT		;SHOULD NOT BE EQUAL
1115	004014	003001			BGT	+.4	
1116	004016	000000			HLT		;BGTA FAILED
1117	004020	002001			BGE	+.4	
1118	004022	000000			HLT		;BGEA FAILED
1119	004024	000240			SCOPE		
1120	004026	122727	000013	000014	CMPB	#13,#14	;SOURCE LESS THAN DESTINATION
1121	004034	001001			BNE	+.4	
1122	004036	000000			HLT		;SHOULD NOT BE EQUAL
1123	004040	002401			BLT	+.4	
1124	004042	000000			HLT		;13 IS LESS THAN 14
1125	004044	003401			BLE	+.4	
1126	004046	000000			HLT		;13 IS LESS THAN 14
1127		000017			N=N+3		
1128		000016			M=N-1		
1129	004050	000240			SCOPE		
1130	004052	122727	000017	000016	CMPB	#17,#16	;SOURCE GREATER THAN DESTINATION
1131	004060	001001			BNE	+.4	
1132	004062	000000			HLT		;SHOULD NOT BE EQUAL
1133	004064	003001			BGT	+.4	
1134	004066	000000			HLT		;BGTA FAILED
1135	004070	002001			BGE	+.4	
1136	004072	000000			HLT		;BGEA FAILED
1137	004074	000240			SCOPE		
1138	004076	122727	000016	000017	CMPB	#16,#17	;SOURCE LESS THAN DESTINATION
1139	004104	001001			BNE	+.4	
1140	004106	000000			HLT		;SHOULD NOT BE EQUAL
1141	004110	002401			BLT	+.4	
1142	004112	000000			HLT		;16 IS LESS THAN 17
1143	004114	003401			BLE	+.4	
1144	004116	000000			HLT		;16 IS LESS THAN 17
1145		000022			N=N+3		
1146		000021			M=N-1		
1147	004120	000240			SCOPE		
1148	004122	122727	000022	000021	CMPB	#22,#21	;SOURCE GREATER THAN DESTINATION
1149	004130	001001			BNE	+.4	

1150	004132	000000			HLT		; SHOULD NOT BE EQUAL
1151	004134	003001			BGT .+4		
1152	004136	000000			HLT		; BGTA FAILED
1153	004140	002001			BGE .+4		
1154	004142	000000			HLT		; BGEA FAILED
1155	004144	000240			SCOPE		
1156	004146	122727	000021	000022	CMPB #21, #22		; SOURCE LESS THAN DESTINATION
1157	004154	001001			BNE .+4		
1158	004156	000000			HLT		; SHOULD NOT BE EQUAL
1159	004160	002401			BLT .+4		
1160	004162	000000			HLT		; 21 IS LESS THAN 22
1161	004164	003401			BLE .+4		
1162	004166	000000			HLT		; 21 IS LESS THAN 22
1163		000025			N=N+3		
1164		000024			M=N-1		
1165	004170	000240			SCOPE		
1166	004172	122727	000025	000024	CMPB #25, #24		; SOURCE GREATER THAN DESTINATION
1167	004200	001001			BNE .+4		
1168	004202	000000			HLT		; SHOULD NOT BE EQUAL
1169	004204	003001			BGT .+4		
1170	004206	000000			HLT		; BGTA FAILED
1171	004210	002001			BGE .+4		
1172	004212	000000			HLT		; BGEA FAILED
1173	004214	000240			SCOPE		
1174	004216	122727	000024	000025	CMPB #24, #25		; SOURCE LESS THAN DESTINATION
1175	004224	001001			BNE .+4		
1176	004226	000000			HLT		; SHOULD NOT BE EQUAL
1177	004230	002401			BLT .+4		
1178	004232	000000			HLT		; 24 IS LESS THAN 25
1179	004234	003401			BLE .+4		
1180	004236	000000			HLT		; 24 IS LESS THAN 25
1181		000030			N=N+3		
1182		000027			M=N-1		
1183	004240	000240			SCOPE		
1184	004242	122727	000030	000027	CMPB #30, #27		; SOURCE GREATER THAN DESTINATION
1185	004250	001001			BNE .+4		
1186	004252	000000			HLT		; SHOULD NOT BE EQUAL
1187	004254	003001			BGT .+4		
1188	004256	000000			HLT		; BGTA FAILED
1189	004260	002001			BGE .+4		
1190	004262	000000			HLT		; BGEA FAILED
1191	004264	000240			SCOPE		
1192	004266	122727	000027	000030	CMPB #27, #30		; SOURCE LESS THAN DESTINATION
1193	004274	001001			BNE .+4		
1194	004276	000000			HLT		; SHOULD NOT BE EQUAL
1195	004300	002401			BLT .+4		
1196	004302	000000			HLT		; 27 IS LESS THAN 30
1197	004304	003401			BLE .+4		
1198	004306	000000			HLT		; 27 IS LESS THAN 30
1199		000033			N=N+3		
1200		000032			M=N-1		
1201	004310	000240			SCOPE		
1202	004312	122727	000033	000032	CMPB #33, #32		; SOURCE GREATER THAN DESTINATION
1203	004320	001001			BNE .+4		
1204	004322	000000			HLT		; SHOULD NOT BE EQUAL
1205	004324	003001			BGT .+4		

1206	004326	000000			HLT		;BGTA FAILED
1207	004330	002001			BGE	.+4	
1208	004332	000000			HLT		;BGEA FAILED
1209	004334	000240			SCOPE		
1210	004336	122727	000032	000033	CMPB	#32, #33	;SOURCE LESS THAN DESTINATION
1211	004344	001001			BNE	.+4	
1212	004346	000000			HLT		;SHOULD NOT BE EQUAL
1213	004350	002401			BLT	.+4	
1214	004352	000000			HLT		;32 IS LESS THAN 33
1215	004354	003401			BLE	.+4	
1216	004356	000000			HLT		;32 IS LESS THAN 33
1217		000036			N=N+3		
1218		000035			M=N-1		
1219	004360	000240			SCOPE		
1220	004362	122727	000036	000035	CMPB	#36, #35	;SOURCE GREATER THAN DESTINATION
1221	004370	001001			BNE	.+4	
1222	004372	000000			HLT		;SHOULD NOT BE EQUAL
1223	004374	003001			BGT	.+4	
1224	004376	000000			HLT		;BGTA FAILED
1225	004400	002001			BGE	.+4	
1226	004402	000000			HLT		;BGEA FAILED
1227	004404	000240			SCOPE		
1228	004406	122727	000035	000036	CMPB	#35, #36	;SOURCE LESS THAN DESTINATION
1229	004414	001001			BNE	.+4	
1230	004416	000000			HLT		;SHOULD NOT BE EQUAL
1231	004420	002401			BLT	.+4	
1232	004422	000000			HLT		;35 IS LESS THAN 36
1233	004424	003401			BLE	.+4	
1234	004426	000000			HLT		;35 IS LESS THAN 36
1235		000041			N=N+3		
1236		000040			M=N-1		
1237	004430	000240			SCOPE		
1238	004432	122727	000041	000040	CMPB	#41, #40	;SOURCE GREATER THAN DESTINATION
1239	004440	001001			BNE	.+4	
1240	004442	000000			HLT		;SHOULD NOT BE EQUAL
1241	004444	003001			BGT	.+4	
1242	004446	000000			HLT		;BGTA FAILED
1243	004450	002001			BGE	.+4	
1244	004452	000000			HLT		;BGEA FAILED
1245	004454	000240			SCOPE		
1246	004456	122727	000040	000041	CMPB	#40, #41	;SOURCE LESS THAN DESTINATION
1247	004464	001001			BNE	.+4	
1248	004466	000000			HLT		;SHOULD NOT BE EQUAL
1249	004470	002401			BLT	.+4	
1250	004472	000000			HLT		;40 IS LESS THAN 41
1251	004474	003401			BLE	.+4	
1252	004476	000000			HLT		;40 IS LESS THAN 41
1253		000044			N=N+3		
1254		000043			M=N-1		
1255	004500	000240			SCOPE		
1256	004502	122727	000044	000043	CMPB	#44, #43	;SOURCE GREATER THAN DESTINATION
1257	004510	001001			BNE	.+4	
1258	004512	000000			HLT		;SHOULD NOT BE EQUAL
1259	004514	003001			BGT	.+4	
1260	004516	000000			HLT		;BGTA FAILED
1261	004520	002001			BGE	.+4	

1262	004522	000000			HLT			;BGEA FAILED
1263	004524	000240			SCOPE			
1264	004526	122727	000043	000044	CMPB	#43, #44		;SOURCE LESS THAN DESTINATION
1265	004534	001001			BNE	.+4		
1266	004536	000000			HLT			;SHOULD NOT BE EQUAL
1267	004540	002401			BLT	.+4		
1268	004542	000000			HLT			;43 IS LESS THAN 44
1269	004544	003401			BLE	.+4		
1270	004546	000000			HLT			;43 IS LESS THAN 44
1271		000047			N=N+3			
1272		000046			M=N-1			
1273	004550	000240			SCOPE			
1274	004552	122727	000047	000046	CMPB	#47, #46		;SOURCE GREATER THAN DESTINATION
1275	004560	001001			BNE	.+4		
1276	004562	000000			HLT			;SHOULD NOT BE EQUAL
1277	004564	003001			BGT	.+4		
1278	004566	000000			HLT			;BGTA FAILED
1279	004570	002001			BGE	.+4		
1280	004572	000000			HLT			;BGEA FAILED
1281	004574	000240			SCOPE			
1282	004576	122727	000046	000047	CMPB	#46, #47		;SOURCE LESS THAN DESTINATION
1283	004604	001001			BNE	.+4		
1284	004606	000000			HLT			;SHOULD NOT BE EQUAL
1285	004610	002401			BLT	.+4		
1286	004612	000000			HLT			;46 IS LESS THAN 47
1287	004614	003401			BLE	.+4		
1288	004616	000000			HLT			;46 IS LESS THAN 47
1289		000052			N=N+3			
1290		000051			M=N-1			
1291	004620	000240			SCOPE			
1292	004622	122727	000052	000051	CMPB	#52, #51		;SOURCE GREATER THAN DESTINATION
1293	004630	001001			BNE	.+4		
1294	004632	000000			HLT			;SHOULD NOT BE EQUAL
1295	004634	003001			BGT	.+4		
1296	004636	000000			HLT			;BGTA FAILED
1297	004640	002001			BGE	.+4		
1298	004642	000000			HLT			;BGEA FAILED
1299	004644	000240			SCOPE			
1300	004646	122727	000051	000052	CMPB	#51, #52		;SOURCE LESS THAN DESTINATION
1301	004654	001001			BNE	.+4		
1302	004656	000000			HLT			;SHOULD NOT BE EQUAL
1303	004660	002401			BLT	.+4		
1304	004662	000000			HLT			;51 IS LESS THAN 52
1305	004664	003401			BLE	.+4		
1306	004666	000000			HLT			;51 IS LESS THAN 52
1307		000055			N=N+3			
1308		000054			M=N-1			
1309	004670	000240			SCOPE			
1310	004672	122727	000055	000054	CMPB	#55, #54		;SOURCE GREATER THAN DESTINATION
1311	004700	001001			BNE	.+4		
1312	004702	000000			HLT			;SHOULD NOT BE EQUAL
1313	004704	003001			BGT	.+4		
1314	004706	000000			HLT			;BGTA FAILED
1315	004710	002001			BGE	.+4		
1316	004712	000000			HLT			;BGEA FAILED
1317	004714	000240			SCOPE			

1318	004716	122727	000054	000055	CMPB	#54, #55	; SOURCE LESS THAN DESTINATION
1319	004724	001001			BNE	.+4	
1320	004726	000000			HLT		; SHOULD NOT BE EQUAL
1321	004730	002401			BLT	.+4	
1322	004732	000000			HLT		; 54 IS LESS THAN 55
1323	004734	003401			BLE	.+4	
1324	004736	000000			HLT		; 54 IS LESS THAN 55
1325		000060			N=N+3		
1326		000057			M=N-1		
1327	004740	000240			SCOPE		
1328	004742	122727	000060	000057	CMPB	#60, #57	; SOURCE GREATER THAN DESTINATION
1329	004750	001001			BNE	.+4	
1330	004752	000000			HLT		; SHOULD NOT BE EQUAL
1331	004754	003001			BGT	.+4	
1332	004756	000000			HLT		; BGTA FAILED
1333	004760	002001			BGE	.+4	
1334	004762	000000			HLT		; BGEA FAILED
1335	004764	000240			SCOPE		
1336	004766	122727	000057	000060	CMPB	#57, #60	; SOURCE LESS THAN DESTINATION
1337	004774	001001			BNE	.+4	
1338	004776	000000			HLT		; SHOULD NOT BE EQUAL
1339	005000	002401			BLT	.+4	
1340	005002	000000			HLT		; 57 IS LESS THAN 60
1341	005004	003401			BLE	.+4	
1342	005006	000000			HLT		; 57 IS LESS THAN 60
1343		000063			N=N+3		
1344		000062			M=N-1		
1345	005010	000240			SCOPE		
1346	005012	122727	000063	000062	CMPB	#63, #62	; SOURCE GREATER THAN DESTINATION
1347	005020	001001			BNE	.+4	
1348	005022	000000			HLT		; SHOULD NOT BE EQUAL
1349	005024	003001			BGT	.+4	
1350	005026	000000			HLT		; BGTA FAILED
1351	005030	002001			BGE	.+4	
1352	005032	000000			HLT		; BGEA FAILED
1353	005034	000240			SCOPE		
1354	005036	122727	000062	000063	CMPB	#62, #63	; SOURCE LESS THAN DESTINATION
1355	005044	001001			BNE	.+4	
1356	005046	000000			HLT		; SHOULD NOT BE EQUAL
1357	005050	002401			BLT	.+4	
1358	005052	000000			HLT		; 62 IS LESS THAN 63
1359	005054	003401			BLE	.+4	
1360	005056	000000			HLT		; 62 IS LESS THAN 63
1361		000066			N=N+3		
1362		000065			M=N-1		
1363	005060	000240			SCOPE		
1364	005062	122727	000066	000065	CMPB	#66, #65	; SOURCE GREATER THAN DESTINATION
1365	005070	001001			BNE	.+4	
1366	005072	000000			HLT		; SHOULD NOT BE EQUAL
1367	005074	003001			BGT	.+4	
1368	005076	000000			HLT		; BGTA FAILED
1369	005100	002001			BGE	.+4	
1370	005102	000000			HLT		; BGEA FAILED
1371	005104	000240			SCOPE		
1372	005106	122727	000065	000066	CMPB	#65, #66	; SOURCE LESS THAN DESTINATION
1373	005114	001001			BNE	.+4	

1374	005116	000000			HLT			; SHOULD NOT BE EQUAL
1375	005120	002401			BLT	.+4		
1376	005122	000000			HLT			; 65 IS LESS THAN 66
1377	005124	003401			BLE	.+4		
1378	005126	000000			HLT			; 65 IS LESS THAN 66
1379		000071			N=N+3			
1380		000070			M=N-1			
1381	005130	000240			SCOPE			
1382	005132	122727	000071	000070	CMPB	#71, #70		; SOURCE GREATER THAN DESTINATION
1383	005140	001001			BNE	.+4		
1384	005142	000000			HLT			; SHOULD NOT BE EQUAL
1385	005144	003001			BGT	.+4		
1386	005146	000000			HLT			; BGTA FAILED
1387	005150	002001			BGE	.+4		
1388	005152	000000			HLT			; BGEA FAILED
1389	005154	000240			SCOPE			
1390	005156	122727	000070	000071	CMPB	#70, #71		; SOURCE LESS THAN DESTINATION
1391	005164	001001			BNE	.+4		
1392	005166	000000			HLT			; SHOULD NOT BE EQUAL
1393	005170	002401			BLT	.+4		
1394	005172	000000			HLT			; 70 IS LESS THAN 71
1395	005174	003401			BLE	.+4		
1396	005176	000000			HLT			; 70 IS LESS THAN 71
1397		000074			N=N+3			
1398		000073			M=N-1			
1399	005200	000240			SCOPE			
1400	005202	122727	000074	000073	CMPB	#74, #73		; SOURCE GREATER THAN DESTINATION
1401	005210	001001			BNE	.+4		
1402	005212	000000			HLT			; SHOULD NOT BE EQUAL
1403	005214	003001			BGT	.+4		
1404	005216	000000			HLT			; BGTA FAILED
1405	005220	002001			BGE	.+4		
1406	005222	000000			HLT			; BGEA FAILED
1407	005224	000240			SCOPE			
1408	005226	122727	000073	000074	CMPB	#73, #74		; SOURCE LESS THAN DESTINATION
1409	005234	001001			BNE	.+4		
1410	005236	000000			HLT			; SHOULD NOT BE EQUAL
1411	005240	002401			BLT	.+4		
1412	005242	000000			HLT			; 73 IS LESS THAN 74
1413	005244	003401			BLE	.+4		
1414	005246	000000			HLT			; 73 IS LESS THAN 74
1415		000077			N=N+3			
1416		000076			M=N-1			
1417	005250	000240			SCOPE			
1418	005252	122727	000077	000076	CMPB	#77, #76		; SOURCE GREATER THAN DESTINATION
1419	005260	001001			BNE	.+4		
1420	005262	000000			HLT			; SHOULD NOT BE EQUAL
1421	005264	003001			BGT	.+4		
1422	005266	000000			HLT			; BGTA FAILED
1423	005270	002001			BGE	.+4		
1424	005272	000000			HLT			; BGEA FAILED
1425	005274	000240			SCOPE			
1426	005276	122727	000076	000077	CMPB	#76, #77		; SOURCE LESS THAN DESTINATION
1427	005304	001001			BNE	.+4		
1428	005306	000000			HLT			; SHOULD NOT BE EQUAL
1429	005310	002401			BLT	.+4		

E03

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 31
 DOGA.P11

1430	005312	000000			HLT		;76 IS LESS THAN 77
1431	005314	003401			BLE	.+4	
1432	005316	000000			HLT		;76 IS LESS THAN 77
1433		000102			N=N+3		
1434		000101			M=N-1		
1435	005320	000240			SCOPE		
1436	005322	122727	000102	000101	CMPB	#102,#101	;SOURCE GREATER THAN DESTINATION
1437	005330	001001			BNE	.+4	
1438	005332	000000			HLT		;SHOULD NOT BE EQUAL
1439	005334	003001			BGT	.+4	
1440	005336	000000			HLT		;BGTA FAILED
1441	005340	002001			BGE	.+4	
1442	005342	000000			HLT		;BGEA FAILED
1443	005344	000240			SCOPE		
1444	005346	122727	000101	000102	CMPB	#101,#102	;SOURCE LESS THAN DESTINATION
1445	005354	001001			BNE	.+4	
1446	005356	000000			HLT		;SHOULD NOT BE EQUAL
1447	005360	002401			BLT	.+4	
1448	005362	000000			HLT		;101 IS LESS THAN 102
1449	005364	003401			BLE	.+4	
1450	005366	000000			HLT		;101 IS LESS THAN 102
1451		000105			N=N+3		
1452		000104			M=N-1		
1453	005370	000240			SCOPE		
1454	005372	122727	000105	000104	CMPB	#105,#104	;SOURCE GREATER THAN DESTINATION
1455	005400	001001			BNE	.+4	
1456	005402	000000			HLT		;SHOULD NOT BE EQUAL
1457	005404	003001			BGT	.+4	
1458	005406	000000			HLT		;BGTA FAILED
1459	005410	002001			BGE	.+4	
1460	005412	000000			HLT		;BGEA FAILED
1461	005414	000240			SCOPE		
1462	005416	122727	000104	000105	CMPB	#104,#105	;SOURCE LESS THAN DESTINATION
1463	005424	001001			BNE	.+4	
1464	005426	000000			HLT		;SHOULD NOT BE EQUAL
1465	005430	002401			BLT	.+4	
1466	005432	000000			HLT		;104 IS LESS THAN 105
1467	005434	003401			BLE	.+4	
1468	005436	000000			HLT		;104 IS LESS THAN 105
1469		000110			N=N+3		
1470		000107			M=N-1		
1471	005440	000240			SCOPE		
1472	005442	122727	000110	000107	CMPB	#110,#107	;SOURCE GREATER THAN DESTINATION
1473	005450	001001			BNE	.+4	
1474	005452	000000			HLT		;SHOULD NOT BE EQUAL
1475	005454	003001			BGT	.+4	
1476	005456	000000			HLT		;BGTA FAILED
1477	005460	002001			BGE	.+4	
1478	005462	000000			HLT		;BGEA FAILED
1479	005464	000240			SCOPE		
1480	005466	122727	000107	000110	CMPB	#107,#110	;SOURCE LESS THAN DESTINATION
1481	005474	001001			BNE	.+4	
1482	005476	000000			HLT		;SHOULD NOT BE EQUAL
1483	005500	002401			BLT	.+4	
1484	005502	000000			HLT		;107 IS LESS THAN 110
1485	005504	003401			BLE	.+4	

1486	005506	000000			HLT			;107 IS LESS THAN 110
1487		000113			N=N+3			
1488		000112			M=N-1			
1489	005510	000240			SCOPE			
1490	005512	122727	000113	000112	CMPB	#113,#112		;SOURCE GREATER THAN DESTINATION
1491	005520	001001			BNE	.+4		
1492	005522	000000			HLT			;SHOULD NOT BE EQUAL
1493	005524	003001			BGT	.+4		
1494	005526	000000			HLT			;BGTA FAILED
1495	005530	002001			BGE	.+4		
1496	005532	000000			HLT			;BGEA FAILED
1497	005534	000240			SCOPE			
1498	005536	122727	000112	000113	CMPB	#112,#113		;SOURCE LESS THAN DESTINATION
1499	005544	001001			BNE	.+4		
1500	005546	000000			HLT			;SHOULD NOT BE EQUAL
1501	005550	002401			BLT	.+4		
1502	005552	000000			HLT			;112 IS LESS THAN 113
1503	005554	003401			BLE	.+4		
1504	005556	000000			HLT			;112 IS LESS THAN 113
1505		000116			N=N+3			
1506		000115			M=N-1			
1507	005560	000240			SCOPE			
1508	005562	122727	000116	000115	CMPB	#116,#115		;SOURCE GREATER THAN DESTINATION
1509	005570	001001			BNE	.+4		
1510	005572	000000			HLT			;SHOULD NOT BE EQUAL
1511	005574	003001			BGT	.+4		
1512	005576	000000			HLT			;BGTA FAILED
1513	005600	002001			BGE	.+4		
1514	005602	000000			HLT			;BGEA FAILED
1515	005604	000240			SCOPE			
1516	005606	122727	000115	000116	CMPB	#115,#116		;SOURCE LESS THAN DESTINATION
1517	005614	001001			BNE	.+4		
1518	005616	000000			HLT			;SHOULD NOT BE EQUAL
1519	005620	002401			BLT	.+4		
1520	005622	000000			HLT			;115 IS LESS THAN 116
1521	005624	003401			BLE	.+4		
1522	005626	000000			HLT			;115 IS LESS THAN 116
1523		000121			N=N+3			
1524		000120			M=N-1			
1525	005630	000240			SCOPE			
1526	005632	122727	000121	000120	CMPB	#121,#120		;SOURCE GREATER THAN DESTINATION
1527	005640	001001			BNE	.+4		
1528	005642	000000			HLT			;SHOULD NOT BE EQUAL
1529	005644	003001			BGT	.+4		
1530	005646	000000			HLT			;BGTA FAILED
1531	005650	002001			BGE	.+4		
1532	005652	000000			HLT			;BGEA FAILED
1533	005654	000240			SCOPE			
1534	005656	122727	000120	000121	CMPB	#120,#121		;SOURCE LESS THAN DESTINATION
1535	005664	001001			BNE	.+4		
1536	005666	000000			HLT			;SHOULD NOT BE EQUAL
1537	005670	002401			BLT	.+4		
1538	005672	000000			HLT			;120 IS LESS THAN 121
1539	005674	003401			BLE	.+4		
1540	005676	000000			HLT			;120 IS LESS THAN 121
1541		000124			N=N+3			

1542		000123			M=N-1		
1543	005700	000240			SCOPE		
1544	005702	122727	000124	000123	CMPB	#124,#123	;SOURCE GREATER THAN DESTINATION
1545	005710	001001			BNE	.+4	
1546	005712	000000			HLT		;SHOULD NOT BE EQUAL
1547	005714	003001			BGT	.+4	
1548	005716	000000			HLT		;BGTA FAILED
1549	005720	002001			BGE	.+4	
1550	005722	000000			HLT		;BGEA FAILED
1551	005724	000240			SCOPE		
1552	005726	122727	000123	000124	CMPB	#123,#124	;SOURCE LESS THAN DESTINATION
1553	005734	001001			BNE	.+4	
1554	005736	000000			HLT		;SHOULD NOT BE EQUAL
1555	005740	002401			BLT	.+4	
1556	005742	000000			HLT		;123 IS LESS THAN 124
1557	005744	003401			BLE	.+4	
1558	005746	000000			HLT		;123 IS LESS THAN 124
1559		000127			N=N+3		
1560		000126			M=N-1		
1561	005750	000240			SCOPE		
1562	005752	122727	000127	000126	CMPB	#127,#126	;SOURCE GREATER THAN DESTINATION
1563	005760	001001			BNE	.+4	
1564	005762	000000			HLT		;SHOULD NOT BE EQUAL
1565	005764	003001			BGT	.+4	
1566	005766	000000			HLT		;BGTA FAILED
1567	005770	002001			BGE	.+4	
1568	005772	000000			HLT		;BGEA FAILED
1569	005774	000240			SCOPE		
1570	005776	122727	000126	000127	CMPB	#126,#127	;SOURCE LESS THAN DESTINATION
1571	006004	001001			BNE	.+4	
1572	006006	000000			HLT		;SHOULD NOT BE EQUAL
1573	006010	002401			BLT	.+4	
1574	006012	000000			HLT		;126 IS LESS THAN 127
1575	006014	003401			BLE	.+4	
1576	006016	000000			HLT		;126 IS LESS THAN 127
1577		000132			N=N+3		
1578		000131			M=N-1		
1579	006020	000240			SCOPE		
1580	006022	122727	000132	000131	CMPB	#132,#131	;SOURCE GREATER THAN DESTINATION
1581	006030	001001			BNE	.+4	
1582	006032	000000			HLT		;SHOULD NOT BE EQUAL
1583	006034	003001			BGT	.+4	
1584	006036	000000			HLT		;BGTA FAILED
1585	006040	002001			BGE	.+4	
1586	006042	000000			HLT		;BGEA FAILED
1587	006044	000240			SCOPE		
1588	006046	122727	000131	000132	CMPB	#131,#132	;SOURCE LESS THAN DESTINATION
1589	006054	001001			BNE	.+4	
1590	006056	000000			HLT		;SHOULD NOT BE EQUAL
1591	006060	002401			BLT	.+4	
1592	006062	000000			HLT		;131 IS LESS THAN 132
1593	006064	003401			BLE	.+4	
1594	006066	000000			HLT		;131 IS LESS THAN 132
1595		000135			N=N+3		
1596		000134			M=N-1		
1597	006070	000240			SCOPE		

H03

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 34
DOGA.P11

```
1598 006072 122727 000135 000134      CMPB      #135,#134          ;SOURCE GREATER THAN DESTINATION
1599 006100 001001                BNE        .+4
1600 006102 000000                HLT                ;SHOULD NOT BE EQUAL
1601 006104 003001                BGT        .+4
1602 006106 000000                HLT                ;BGTA FAILED
1603 006110 002001                BGE        .+4
1604 006112 000000                HLT                ;BGEA FAILED
1605 006114 000240                SCOPE
1606 006116 122727 000134 000135      CMPB      #134,#135          ;SOURCE LESS THAN DESTINATION
1607 006124 001001                BNE        .+4
1608 006126 000000                HLT                ;SHOULD NOT BE EQUAL
1609 006130 002401                BLT        .+4
1610 006132 000000                HLT                ;134 IS LESS THAN 135
1611 006134 003401                BLE        .+4
1612 006136 000000                HLT                ;134 IS LESS THAN 135
1613                N=N+3
1614                ;TEST COMPARE WORD FOR GREATER AND LESS THAN (NONSIGN ARITHMETIC)
1615
1616 006140 000240                SCOPE
1617 006142 022727 000001 000000      CMP        #1,#0          ;SOURCE GREATER THAN DESTINATION
1618 006150 001001                BNE        .+4
1619 006152 000000                HLT                ;SHOULD NOT BE EQUAL
1620 006154 101001                BHI        .+4
1621 006156 000000                HLT                ;BGT FAILED
1622 006160 103001                BHIS       .+4
1623 006162 000000                HLT                ;BGE FAILED
1624 006164 000240                SCOPE
1625 006166 022727 000000 000001      CMP        #0,#1          ;SOURCE LESS THAN DESTINATION
1626 006174 001001                BNE        .+4
1627 006176 000000                HLT                ;SHOULD NOT BE EQUAL
1628 006200 103401                BLO        .+4
1629 006202 000000                HLT                ;0 IS LESS THAN 1
1630 006204 101401                BLOS       .+4
1631 006206 000000                HLT                ;0 IS LESS THAN 1
1632 006210 000240                SCOPE
1633 006212 022727 177777 000000      CMP        #-1,#0        ;SOURCE GREATER THAN DESTINATION
1634 006220 001001                BNE        .+4
1635 006222 000000                HLT                ;SHOULD NOT BE EQUAL
1636 006224 101001                BHI        .+4
1637 006226 000000                HLT                ;BGT FAILED
1638 006230 103001                BHIS       .+4
1639 006232 000000                HLT                ;BGE FAILED
1640 006234 000240                SCOPE
1641 006236 022727 000000 177777      CMP        #0,#-1        ;SOURCE LESS THAN DESTINATION
1642 006244 001001                BNE        .+4
1643 006246 000000                HLT                ;SHOULD NOT BE EQUAL
1644 006250 103401                BLO        .+4
1645 006252 000000                HLT                ;0 IS LESS THAN -1
1646 006254 101401                BLOS       .+4
1647 006256 000000                HLT                ;0 IS LESS THAN -1
1648 006260 000240                SCOPE
1649 006262 022727 100000 077777      CMP        #100000,#77777 ;SOURCE GREATER THAN DESTINATION
1650 006270 001001                BNE        .+4
1651 006272 000000                HLT                ;SHOULD NOT BE EQUAL
1652 006274 101001                BHI        .+4
1653 006276 000000                HLT                ;BGT FAILED
```

1654	006300	103001		BHIS	.+4	
1655	006302	000000		HLT		;BGE FAILED
1656	006304	000240		SCOPE		
1657	006306	022727	077777 100000	CMP	#77777,#100000	;SOURCE LESS THAN DESTINATION
1658	006314	001001		BNE	.+4	
1659	006316	000000		HLT		;SHOULD NOT BE EQUAL
1660	006320	103401		BLO	.+4	
1661	006322	000000		HLT		;77777 IS LESS THAN 100000
1662	006324	101401		BLOS	.+4	
1663	006326	000000		HLT		;77777 IS LESS THAN 100000
1664	006330	000240		SCOPE		
1665	006332	022727	177777 100000	CMP	#177777,#100000	;SOURCE GREATER THAN DESTINATION
1666	006340	001001		BNE	.+4	
1667	006342	000000		HLT		;SHOULD NOT BE EQUAL
1668	006344	101001		BHI	.+4	
1669	006346	000000		HLT		;BGT FAILED
1670	006350	103001		BHIS	.+4	
1671	006352	000000		HLT		;BGE FAILED
1672	006354	000240		SCOPE		
1673	006356	022727	100000 177777	CMP	#100000,#177777	;SOURCE LESS THAN DESTINATION
1674	006364	001001		BNE	.+4	
1675	006366	000000		HLT		;SHOULD NOT BE EQUAL
1676	006370	103401		BLO	.+4	
1677	006372	000000		HLT		;100000 IS LESS THAN 177777
1678	006374	101401		BLOS	.+4	
1679	006376	000000		HLT		;100000 IS LESS THAN 177777
1680	006400	000240		SCOPE		
1681	006402	022727	100001 100000	CMP	#100001,#100000	;SOURCE GREATER THAN DESTINATION
1682	006410	001001		BNE	.+4	
1683	006412	000000		HLT		;SHOULD NOT BE EQUAL
1684	006414	101001		BHI	.+4	
1685	006416	000000		HLT		;BGT FAILED
1686	006420	103001		BHIS	.+4	
1687	006422	000000		HLT		;BGE FAILED
1688	006424	000240		SCOPE		
1689	006426	022727	100000 100001	CMP	#100000,#100001	;SOURCE LESS THAN DESTINATION
1690	006434	001001		BNE	.+4	
1691	006436	000000		HLT		;SHOULD NOT BE EQUAL
1692	006440	103401		BLO	.+4	
1693	006442	000000		HLT		;100000 IS LESS THAN 100001
1694	006444	101401		BLOS	.+4	
1695	006446	000000		HLT		;100000 IS LESS THAN 100001
1696	006450	000240		SCOPE		
1697	006452	122727	000001 000000	CMPB	#1,#0	;SOURCE GREATER THAN DESTINATION
1698	006460	001001		BNE	.+4	
1699	006462	000000		HLT		;SHOULD NOT BE EQUAL
1700	006464	101001		BHI	.+4	
1701	006466	000000		HLT		;BGT FAILED
1702	006470	103001		BHIS	.+4	
1703	006472	000000		HLT		;BGE FAILED
1704	006474	000240		SCOPE		
1705	006476	122727	000000 000001	CMPB	#0,#1	;SOURCE LESS THAN DESTINATION
1706	006504	001001		BNE	.+4	
1707	006506	000000		HLT		;SHOULD NOT BE EQUAL
1708	006510	103401		BLO	.+4	
1709	006512	000000		HLT		;0 IS LESS THAN 1

1710	006514	101401			BLOS	.+4		
1711	006516	000000			HLT		;0 IS LESS THAN 1	
1712	006520	000240			SCOPE			
1713	006522	122727	000001	000400	CMPB	#1, #400	;SOURCE GREATER THAN DESTINATION	
1714	006530	001001			BNE	.+4		
1715	006532	000000			HLT		;SHOULD NOT BE EQUAL	
1716	006534	101001			BHI	.+4		
1717	006536	000000			HLT		;BGT FAILED	
1718	006540	103001			BHIS	.+4		
1719	006542	000000			HLT		;BGE FAILED	
1720	006544	000240			SCOPE			
1721	006546	122727	000400	000001	CMPB	#400, #1	;SOURCE LESS THAN DESTINATION	
1722	006554	001001			BNE	.+4		
1723	006556	000000			HLT		;SHOULD NOT BE EQUAL	
1724	006560	103401			BLO	.+4		
1725	006562	000000			HLT		;400 IS LESS THAN 1	
1726	006564	101401			BLOS	.+4		
1727	006566	000000			HLT		;400 IS LESS THAN 1	
1728	006570	000240			SCOPE			
1729	006572	122727	000401	000400	CMPB	#401, #400	;SOURCE GREATER THAN DESTINATION	
1730	006600	001001			BNE	.+4		
1731	006602	000000			HLT		;SHOULD NOT BE EQUAL	
1732	006604	101001			BHI	.+4		
1733	006606	000000			HLT		;BGT FAILED	
1734	006610	103001			BHIS	.+4		
1735	006612	000000			HLT		;BGE FAILED	
1736	006614	000240			SCOPE			
1737	006616	122727	000400	000401	CMPB	#400, #401	;SOURCE LESS THAN DESTINATION	
1738	006624	001001			BNE	.+4		
1739	006626	000000			HLT		;SHOULD NOT BE EQUAL	
1740	006630	103401			BLO	.+4		
1741	006632	000000			HLT		;400 IS LESS THAN 401	
1742	006634	101401			BLOS	.+4		
1743	006636	000000			HLT		;400 IS LESS THAN 401	
1744		000001			N=1			
1745		000000			M=N-1			
1746	006640	000240			SCOPE			
1747	006642	022727	000001	000000	CMP	#1, #0	;SOURCE GREATER THAN DESTINATION	
1748	006650	001001			BNE	.+4		
1749	006652	000000			HLT		;SHOULD NOT BE EQUAL	
1750	006654	101001			BHI	.+4		
1751	006656	000000			HLT		;BGT FAILED	
1752	006660	103001			BHIS	.+4		
1753	006662	000000			HLT		;BGE FAILED	
1754	006664	000240			SCOPE			
1755	006666	022727	000000	000001	CMP	#0, #1	;SOURCE LESS THAN DESTINATION	
1756	006674	001001			BNE	.+4		
1757	006676	000000			HLT		;SHOULD NOT BE EQUAL	
1758	006700	103401			BLO	.+4		
1759	006702	000000			HLT		;0 IS LESS THAN 1	
1760	006704	101401			BLOS	.+4		
1761	006706	000000			HLT		;0 IS LESS THAN 1	
1762		006364			N=N+06363			
1763		006363			M=N-1			
1764	006710	000240			SCOPE			
1765	006712	022727	006364	006363	CMP	#6364, #6363	;SOURCE GREATER THAN DESTINATION	

1766	006720	001001		BNE	.+4	
1767	006722	000000		HLT		; SHOULD NOT BE EQUAL
1768	006724	101001		BHI	.+4	
1769	006726	000000		HLT		; BGT FAILED
1770	006730	103001		BHIS	.+4	
1771	006732	000000		HLT		; BGE FAILED
1772	006734	000240		SCOPE		
1773	006736	022727	006363 006364	CMP	#6363, #6364	; SOURCE LESS THAN DESTINATION
1774	006744	001001		BNE	.+4	
1775	006746	000000		HLT		; SHOULD NOT BE EQUAL
1776	006750	103401		BLO	.+4	
1777	006752	000000		HLT		; 6363 IS LESS THAN 6364
1778	006754	101401		BLOS	.+4	
1779	006756	000000		HLT		; 6363 IS LESS THAN 6364
1780		014747		N=N+06363		
1781		014746		M=N-1		
1782	006760	000240		SCOPE		
1783	006762	022727	014747 014746	CMP	#14747, #14746	; SOURCE GREATER THAN DESTINATION
1784	006770	001001		BNE	.+4	
1785	006772	000000		HLT		; SHOULD NOT BE EQUAL
1786	006774	101001		BHI	.+4	
1787	006776	000000		HLT		; BGT FAILED
1788	007000	103001		BHIS	.+4	
1789	007002	000000		HLT		; BGE FAILED
1790	007004	000240		SCOPE		
1791	007006	022727	014746 014747	CMP	#14746, #14747	; SOURCE LESS THAN DESTINATION
1792	007014	001001		BNE	.+4	
1793	007016	000000		HLT		; SHOULD NOT BE EQUAL
1794	007020	103401		BLO	.+4	
1795	007022	000000		HLT		; 14746 IS LESS THAN 14747
1796	007024	101401		BLOS	.+4	
1797	007026	000000		HLT		; 14746 IS LESS THAN 14747
1798		023332		N=N+06363		
1799		023331		M=N-1		
1800	007030	000240		SCOPE		
1801	007032	022727	023332 023331	CMP	#23332, #23331	; SOURCE GREATER THAN DESTINATION
1802	007040	001001		BNE	.+4	
1803	007042	000000		HLT		; SHOULD NOT BE EQUAL
1804	007044	101001		BHI	.+4	
1805	007046	000000		HLT		; BGT FAILED
1806	007050	103001		BHIS	.+4	
1807	007052	000000		HLT		; BGE FAILED
1808	007054	000240		SCOPE		
1809	007056	022727	023331 023332	CMP	#23331, #23332	; SOURCE LESS THAN DESTINATION
1810	007064	001001		BNE	.+4	
1811	007066	000000		HLT		; SHOULD NOT BE EQUAL
1812	007070	103401		BLO	.+4	
1813	007072	000000		HLT		; 23331 IS LESS THAN 23332
1814	007074	101401		BLOS	.+4	
1815	007076	000000		HLT		; 23331 IS LESS THAN 23332
1816		031715		N=N+06363		
1817		031714		M=N-1		
1818	007100	000240		SCOPE		
1819	007102	022727	031715 031714	CMP	#31715, #31714	; SOURCE GREATER THAN DESTINATION
1820	007110	001001		BNE	.+4	
1821	007112	000000		HLT		; SHOULD NOT BE EQUAL

1822	007114	101001		BHI	.+4	
1823	007116	000000		HLT		;BGT FAILED
1824	007120	103001		BHIS	.+4	
1825	007122	000000		HLT		;BGE FAILED
1826	007124	000240		SCOPE		
1827	007126	022727	031714 031715	CMP	#31714,#31715	;SOURCE LESS THAN DESTINATION
1828	007134	001001		BNE	.+4	
1829	007136	000000		HLT		;SHOULD NOT BE EQUAL
1830	007140	103401		BLO	.+4	
1831	007142	000000		HLT		;31714 IS LESS THAN 31715
1832	007144	101401		BLOS	.+4	
1833	007146	000000		HLT		;31714 IS LESS THAN 31715
1834		040300		N=N+06363		
1835		040277		M=N-1		
1836	007150	000240		SCOPE		
1837	007152	022727	040300 040277	CMP	#40300,#40277	;SOURCE GREATER THAN DESTINATION
1838	007160	001001		BNE	.+4	
1839	007162	000000		HLT		;SHOULD NOT BE EQUAL
1840	007164	101001		BHI	.+4	
1841	007166	000000		HLT		;BGT FAILED
1842	007170	103001		BHIS	.+4	
1843	007172	000000		HLT		;BGE FAILED
1844	007174	000240		SCOPE		
1845	007176	022727	040277 040300	CMP	#40277,#40300	;SOURCE LESS THAN DESTINATION
1846	007204	001001		BNE	.+4	
1847	007206	000000		HLT		;SHOULD NOT BE EQUAL
1848	007210	103401		BLO	.+4	
1849	007212	000000		HLT		;40277 IS LESS THAN 40300
1850	007214	101401		BLOS	.+4	
1851	007216	000000		HLT		;40277 IS LESS THAN 40300
1852		046663		N=N+06363		
1853		046662		M=N-1		
1854	007220	000240		SCOPE		
1855	007222	022727	046663 046662	CMP	#46663,#46662	;SOURCE GREATER THAN DESTINATION
1856	007230	001001		BNE	.+4	
1857	007232	000000		HLT		;SHOULD NOT BE EQUAL
1858	007234	101001		BHI	.+4	
1859	007236	000000		HLT		;BGT FAILED
1860	007240	103001		BHIS	.+4	
1861	007242	000000		HLT		;BGE FAILED
1862	007244	000240		SCOPE		
1863	007246	022727	046662 046663	CMP	#46662,#46663	;SOURCE LESS THAN DESTINATION
1864	007254	001001		BNE	.+4	
1865	007256	000000		HLT		;SHOULD NOT BE EQUAL
1866	007260	103401		BLO	.+4	
1867	007262	000000		HLT		;46662 IS LESS THAN 46663
1868	007264	101401		BLOS	.+4	
1869	007266	000000		HLT		;46662 IS LESS THAN 46663
1870		055246		N=N+06363		
1871		055245		M=N-1		
1872	007270	000240		SCOPE		
1873	007272	022727	055246 055245	CMP	#55246,#55245	;SOURCE GREATER THAN DESTINATION
1874	007300	001001		BNE	.+4	
1875	007302	000000		HLT		;SHOULD NOT BE EQUAL
1876	007304	101001		BHI	.+4	
1877	007306	000000		HLT		;BGT FAILED

1878	007310	103001			BHIS	.+4	
1879	007312	000000			HLT		;BGE FAILED
1880	007314	000240			SCOPE		
1881	007316	022727	055245	055246	CMP	#55245,#55246	;SOURCE LESS THAN DESTINATION
1882	007324	001001			BNE	.+4	
1883	007326	000000			HLT		;SHOULD NOT BE EQUAL
1884	007330	103401			BLO	.+4	
1885	007332	000000			HLT		;55245 IS LESS THAN 55246
1886	007334	101401			BLOS	.+4	
1887	007336	000000			HLT		;55245 IS LESS THAN 55246
1888		063631			N=N+06363		
1889		063630			M=N-1		
1890	007340	000240			SCOPE		
1891	007342	022727	063631	063630	CMP	#63631,#63630	;SOURCE GREATER THAN DESTINATION
1892	007350	001001			BNE	.+4	
1893	007352	000000			HLT		;SHOULD NOT BE EQUAL
1894	007354	101001			BHI	.+4	
1895	007356	000000			HLT		;BGT FAILED
1896	007360	103001			BHIS	.+4	
1897	007362	000000			HLT		;BGE FAILED
1898	007364	000240			SCOPE		
1899	007366	022727	063630	063631	CMP	#63630,#63631	;SOURCE LESS THAN DESTINATION
1900	007374	001001			BNE	.+4	
1901	007376	000000			HLT		;SHOULD NOT BE EQUAL
1902	007400	103401			BLO	.+4	
1903	007402	000000			HLT		;63630 IS LESS THAN 63631
1904	007404	101401			BLOS	.+4	
1905	007406	000000			HLT		;63630 IS LESS THAN 63631
1906		072214			N=N+06363		
1907		072213			M=N-1		
1908	007410	000240			SCOPE		
1909	007412	022727	072214	072213	CMP	#72214,#72213	;SOURCE GREATER THAN DESTINATION
1910	007420	001001			BNE	.+4	
1911	007422	000000			HLT		;SHOULD NOT BE EQUAL
1912	007424	101001			BHI	.+4	
1913	007426	000000			HLT		;BGT FAILED
1914	007430	103001			BHIS	.+4	
1915	007432	000000			HLT		;BGE FAILED
1916	007434	000240			SCOPE		
1917	007436	022727	072213	072214	CMP	#72213,#72214	;SOURCE LESS THAN DESTINATION
1918	007444	001001			BNE	.+4	
1919	007446	000000			HLT		;SHOULD NOT BE EQUAL
1920	007450	103401			BLO	.+4	
1921	007452	000000			HLT		;72213 IS LESS THAN 72214
1922	007454	101401			BLOS	.+4	
1923	007456	000000			HLT		;72213 IS LESS THAN 72214
1924		100577			N=N+06363		
1925		100576			M=N-1		
1926	007460	000240			SCOPE		
1927	007462	022727	100577	100576	CMP	#100577,#100576	;SOURCE GREATER THAN DESTINATION
1928	007470	001001			BNE	.+4	
1929	007472	000000			HLT		;SHOULD NOT BE EQUAL
1930	007474	101001			BHI	.+4	
1931	007476	000000			HLT		;BGT FAILED
1932	007500	103001			BHIS	.+4	
1933	007502	000000			HLT		;BGE FAILED

N03

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 40
 DCGA.P11

1934	007504	000240			SCOPE	
1935	007506	022727	100576	100577	CMP	#100576,#100577 ;SOURCE LESS THAN DESTINATION
1936	007514	001001			BNE	.+4
1937	007516	000000			HLT	;SHOULD NOT BE EQUAL
1938	007520	103401			BLO	.+4
1939	007522	000000			HLT	;100576 IS LESS THAN 100577
1940	007524	101401			BLOS	.+4
1941	007526	000000			HLT	;100576 IS LESS THAN 100577
1942		107162			N=N+06363	
1943		107161			M=N-1	
1944	007530	000240			SCOPE	
1945	007532	022727	107162	107161	CMP	#107162,#107161 ;SOURCE GREATER THAN DESTINATION
1946	007540	001001			BNE	.+4
1947	007542	000000			HLT	;SHOULD NOT BE EQUAL
1948	007544	101001			BHI	.+4
1949	007546	000000			HLT	;BGT FAILED
1950	007550	103001			BHIS	.+4
1951	007552	000000			HLT	;BGE FAILED
1952	007554	000240			SCOPE	
1953	007556	022727	107161	107162	CMP	#107161,#107162 ;SOURCE LESS THAN DESTINATION
1954	007564	001001			BNE	.+4
1955	007566	000000			HLT	;SHOULD NOT BE EQUAL
1956	007570	103401			BLO	.+4
1957	007572	000000			HLT	;107161 IS LESS THAN 107162
1958	007574	101401			BLOS	.+4
1959	007576	000000			HLT	;107161 IS LESS THAN 107162
1960		115545			N=N+06363	
1961		115544			M=N-1	
1962	007600	000240			SCOPE	
1963	007602	022727	115545	115544	CMP	#115545,#115544 ;SOURCE GREATER THAN DESTINATION
1964	007610	001001			BNE	.+4
1965	007612	000000			HLT	;SHOULD NOT BE EQUAL
1966	007614	101001			BHI	.+4
1967	007616	000000			HLT	;BGT FAILED
1968	007620	103001			BHIS	.+4
1969	007622	000000			HLT	;BGE FAILED
1970	007624	000240			SCOPE	
1971	007626	022727	115544	115545	CMP	#115544,#115545 ;SOURCE LESS THAN DESTINATION
1972	007634	001001			BNE	.+4
1973	007636	000000			HLT	;SHOULD NOT BE EQUAL
1974	007640	103401			BLO	.+4
1975	007642	000000			HLT	;115544 IS LESS THAN 115545
1976	007644	101401			BLOS	.+4
1977	007646	000000			HLT	;115544 IS LESS THAN 115545
1978		124130			N=N+06363	
1979		124127			M=N-1	
1980	007650	000240			SCOPE	
1981	007652	022727	124130	124127	CMP	#124130,#124127 ;SOURCE GREATER THAN DESTINATION
1982	007660	001001			BNE	.+4
1983	007662	000000			HLT	;SHOULD NOT BE EQUAL
1984	007664	101001			BHI	.+4
1985	007666	000000			HLT	;BGT FAILED
1986	007670	103001			BHIS	.+4
1987	007672	000000			HLT	;BGE FAILED
1988	007674	000240			SCOPE	
1989	007676	022727	124127	124130	CMP	#124127,#124130 ;SOURCE LESS THAN DESTINATION

1990	007704	001001			BNE	.+4	
1991	007706	000000			HLT		; SHOULD NOT BE EQUAL
1992	007710	103401			BLO	.+4	
1993	007712	000000			HLT		; 124127 IS LESS THAN 124130
1994	007714	101401			BLOS	.+4	
1995	007716	000000			HLT		; 124127 IS LESS THAN 124130
1996		132513			N=N+06363		
1997		132512			M=N-1		
1998	007720	000240			SCOPE		
1999	007722	022727	132513	132512	CMP	#132513, #132512	; SOURCE GREATER THAN DESTINATION
2000	007730	001001			BNE	.+4	
2001	007732	000000			HLT		; SHOULD NOT BE EQUAL
2002	007734	101001			BHI	.+4	
2003	007736	000000			HLT		; BGT FAILED
2004	007740	103001			BHIS	.+4	
2005	007742	000000			HLT		; BGE FAILED
2006	007744	000240			SCOPE		
2007	007746	022727	132512	132513	CMP	#132512, #132513	; SOURCE LESS THAN DESTINATION
2008	007754	001001			BNE	.+4	
2009	007756	000000			HLT		; SHOULD NOT BE EQUAL
2010	007760	103401			BLO	.+4	
2011	007762	000000			HLT		; 132512 IS LESS THAN 132513
2012	007764	101401			BLOS	.+4	
2013	007766	000000			HLT		; 132512 IS LESS THAN 132513
2014		141076			N=N+06363		
2015		141075			M=N-1		
2016	007770	000240			SCOPE		
2017	007772	022727	141076	141075	CMP	#141076, #141075	; SOURCE GREATER THAN DESTINATION
2018	010000	001001			BNE	.+4	
2019	010002	000000			HLT		; SHOULD NOT BE EQUAL
2020	010004	101001			BHI	.+4	
2021	010006	000000			HLT		; BGT FAILED
2022	010010	103001			BHIS	.+4	
2023	010012	000000			HLT		; BGE FAILED
2024	010014	000240			SCOPE		
2025	010016	022727	141075	141076	CMP	#141075, #141076	; SOURCE LESS THAN DESTINATION
2026	010024	001001			BNE	.+4	
2027	010026	000000			HLT		; SHOULD NOT BE EQUAL
2028	010030	103401			BLO	.+4	
2029	010032	000000			HLT		; 141075 IS LESS THAN 141076
2030	010034	101401			BLOS	.+4	
2031	010036	000000			HLT		; 141075 IS LESS THAN 141076
2032		147461			N=N+06363		
2033		147460			M=N-1		
2034	010040	000240			SCOPE		
2035	010042	022727	147461	147460	CMP	#147461, #147460	; SOURCE GREATER THAN DESTINATION
2036	010050	001001			BNE	.+4	
2037	010052	000000			HLT		; SHOULD NOT BE EQUAL
2038	010054	101001			BHI	.+4	
2039	010056	000000			HLT		; BGT FAILED
2040	010060	103001			BHIS	.+4	
2041	010062	000000			HLT		; BGE FAILED
2042	010064	000240			SCOPE		
2043	010066	022727	147460	147461	CMP	#147460, #147461	; SOURCE LESS THAN DESTINATION
2044	010074	001001			BNE	.+4	
2045	010076	000000			HLT		; SHOULD NOT BE EQUAL

2046	010100	103401		BLO	.+4	
2047	010102	000000		HLT		;147460 IS LESS THAN 147461
2048	010104	101401		BLOS	.+4	
2049	010106	000000		HLT		;147460 IS LESS THAN 147461
2050		156044		N=N+06363		
2051		156043		M=N-1		
2052	010110	000240		SCOPE		
2053	010112	022727	156044 156043	CMP	#156044,#156043	;SOURCE GREATER THAN DESTINATION
2054	010120	001001		BNE	.+4	
2055	010122	000000		HLT		;SHOULD NOT BE EQUAL
2056	010124	101001		BHI	.+4	
2057	010126	000000		HLT		;BGT FAILED
2058	010130	103001		BHIS	.+4	
2059	010132	000000		HLT		;BGE FAILED
2060	010134	000240		SCOPE		
2061	010136	022727	156043 156044	CMP	#156043,#156044	;SOURCE LESS THAN DESTINATION
2062	010144	001001		BNE	.+4	
2063	010146	000000		HLT		;SHOULD NOT BE EQUAL
2064	010150	103401		BLO	.+4	
2065	010152	000000		HLT		;156043 IS LESS THAN 156044
2066	010154	101401		BLOS	.+4	
2067	010156	000000		HLT		;156043 IS LESS THAN 156044
2068		164427		N=N+06363		
2069		164426		M=N-1		
2070	010160	000240		SCOPE		
2071	010162	022727	164427 164426	CMP	#164427,#164426	;SOURCE GREATER THAN DESTINATION
2072	010170	001001		BNE	.+4	
2073	010172	000000		HLT		;SHOULD NOT BE EQUAL
2074	010174	101001		BHI	.+4	
2075	010176	000000		HLT		;BGT FAILED
2076	010200	103001		BHIS	.+4	
2077	010202	000000		HLT		;BGE FAILED
2078	010204	000240		SCOPE		
2079	010206	022727	164426 164427	CMP	#164426,#164427	;SOURCE LESS THAN DESTINATION
2080	010214	001001		BNE	.+4	
2081	010216	000000		HLT		;SHOULD NOT BE EQUAL
2082	010220	103401		BLO	.+4	
2083	010222	000000		HLT		;164426 IS LESS THAN 164427
2084	010224	101401		BLOS	.+4	
2085	010226	000000		HLT		;164426 IS LESS THAN 164427
2086		173012		N=N+06363		
2087		173011		M=N-1		
2088	010230	000240		SCOPE		
2089	010232	022727	173012 173011	CMP	#173012,#173011	;SOURCE GREATER THAN DESTINATION
2090	010240	001001		BNE	.+4	
2091	010242	000000		HLT		;SHOULD NOT BE EQUAL
2092	010244	101001		BHI	.+4	
2093	010246	000000		HLT		;BGT FAILED
2094	010250	103001		BHIS	.+4	
2095	010252	000000		HLT		;BGE FAILED
2096	010254	000240		SCOPE		
2097	010256	022727	173011 173012	CMP	#173011,#173012	;SOURCE LESS THAN DESTINATION
2098	010264	001001		BNE	.+4	
2099	010266	000000		HLT		;SHOULD NOT BE EQUAL
2100	010270	103401		BLO	.+4	
2101	010272	000000		HLT		;173011 IS LESS THAN 173012

2102	010274	101401		BLOS	.+4	
2103	010276	000000		HLT		;173011 IS LESS THAN 173012
2104		001375		N=N+06363		
2105		001374		M=N-1		
2106	010300	000240		SCOPE		
2107	010302	022727	001375 001374	CMP	#1375,#1374	;SOURCE GREATER THAN DESTINATION
2108	010310	001001		BNE	.+4	
2109	010312	000000		HLT		;SHOULD NOT BE EQUAL
2110	010314	101001		BHI	.+4	
2111	010316	000000		HLT		;BGT FAILED
2112	010320	103001		BHIS	.+4	
2113	010322	000000		HLT		;BGE FAILED
2114	010324	000240		SCOPE		
2115	010326	022727	001374 001375	CMP	#1374,#1375	;SOURCE LESS THAN DESTINATION
2116	010334	001001		BNE	.+4	
2117	010336	000000		HLT		;SHOULD NOT BE EQUAL
2118	010340	103401		BLO	.+4	
2119	010342	000000		HLT		;1374 IS LESS THAN 1375
2120	010344	101401		BLOS	.+4	
2121	010346	000000		HLT		;1374 IS LESS THAN 1375
2122		007760		N=N+06363		
2123		007757		M=N-1		
2124	010350	000240		SCOPE		
2125	010352	022727	007760 007757	CMP	#7760,#7757	;SOURCE GREATER THAN DESTINATION
2126	010360	001001		BNE	.+4	
2127	010362	000000		HLT		;SHOULD NOT BE EQUAL
2128	010364	101001		BHI	.+4	
2129	010366	000000		HLT		;BGT FAILED
2130	010370	103001		BHIS	.+4	
2131	010372	000000		HLT		;BGE FAILED
2132	010374	000240		SCOPE		
2133	010376	022727	007757 007760	CMP	#7757,#7760	;SOURCE LESS THAN DESTINATION
2134	010404	001001		BNE	.+4	
2135	010406	000000		HLT		;SHOULD NOT BE EQUAL
2136	010410	103401		BLO	.+4	
2137	010412	000000		HLT		;7757 IS LESS THAN 7760
2138	010414	101401		BLOS	.+4	
2139	010416	000000		HLT		;7757 IS LESS THAN 7760
2140		016343		N=N+06363		
2141		016342		M=N-1		
2142	010420	000240		SCOPE		
2143	010422	022727	016343 016342	CMP	#16343,#16342	;SOURCE GREATER THAN DESTINATION
2144	010430	001001		BNE	.+4	
2145	010432	000000		HLT		;SHOULD NOT BE EQUAL
2146	010434	101001		BHI	.+4	
2147	010436	000000		HLT		;BGT FAILED
2148	010440	103001		BHIS	.+4	
2149	010442	000000		HLT		;BGE FAILED
2150	010444	000240		SCOPE		
2151	010446	022727	016342 016343	CMP	#16342,#16343	;SOURCE LESS THAN DESTINATION
2152	010454	001001		BNE	.+4	
2153	010456	000000		HLT		;SHOULD NOT BE EQUAL
2154	010460	103401		BLO	.+4	
2155	010462	000000		HLT		;16342 IS LESS THAN 16343
2156	010464	101401		BLOS	.+4	
2157	010466	000000		HLT		;16342 IS LESS THAN 16343

2158		024726		N=N+06363	
2159		024725		M=N-1	
2160	010470	000240		SCOPE	
2161	010472	022727	024726 024725	CMP #24726, #24725	;SOURCE GREATER THAN DESTINATION
2162	010500	001001		BNE .+4	
2163	010502	000000		HLT	;SHOULD NOT BE EQUAL
2164	010504	101001		BHI .+4	
2165	010506	000000		HLT	;BGT FAILED
2166	010510	103001		BHIS .+4	
2167	010512	000000		HLT	;BGE FAILED
2168	010514	000240		SCOPE	
2169	010516	022727	024725 024726	CMP #24725, #24726	;SOURCE LESS THAN DESTINATION
2170	010524	001001		BNE .+4	
2171	010526	000000		HLT	;SHOULD NOT BE EQUAL
2172	010530	103401		BLO .+4	
2173	010532	000000		HLT	;24725 IS LESS THAN 24726
2174	010534	101401		BLOS .+4	
2175	010536	000000		HLT	;24725 IS LESS THAN 24726
2176		033311		N=N+06363	
2177		033310		M=N-1	
2178	010540	000240		SCOPE	
2179	010542	022727	033311 033310	CMP #33311, #33310	;SOURCE GREATER THAN DESTINATION
2180	010550	001001		BNE .+4	
2181	010552	000000		HLT	;SHOULD NOT BE EQUAL
2182	010554	101001		BHI .+4	
2183	010556	000000		HLT	;BGT FAILED
2184	010560	103001		BHIS .+4	
2185	010562	000000		HLT	;BGE FAILED
2186	010564	000240		SCOPE	
2187	010566	022727	033310 033311	CMP #33310, #33311	;SOURCE LESS THAN DESTINATION
2188	010574	001001		BNE .+4	
2189	010576	000000		HLT	;SHOULD NOT BE EQUAL
2190	010600	103401		BLO .+4	
2191	010602	000000		HLT	;33310 IS LESS THAN 33311
2192	010604	101401		BLOS .+4	
2193	010606	000000		HLT	;33310 IS LESS THAN 33311
2194		041674		N=N+06363	
2195		041673		M=N-1	
2196	010610	000240		SCOPE	
2197	010612	022727	041674 041673	CMP #41674, #41673	;SOURCE GREATER THAN DESTINATION
2198	010620	001001		BNE .+4	
2199	010622	000000		HLT	;SHOULD NOT BE EQUAL
2200	010624	101001		BHI .+4	
2201	010626	000000		HLT	;BGT FAILED
2202	010630	103001		BHIS .+4	
2203	010632	000000		HLT	;BGE FAILED
2204	010634	000240		SCOPE	
2205	010636	022727	041673 041674	CMP #41673, #41674	;SOURCE LESS THAN DESTINATION
2206	010644	001001		BNE .+4	
2207	010646	000000		HLT	;SHOULD NOT BE EQUAL
2208	010650	103401		BLO .+4	
2209	010652	000000		HLT	;41673 IS LESS THAN 41674
2210	010654	101401		BLOS .+4	
2211	010656	000000		HLT	;41673 IS LESS THAN 41674
2212		050257		N=N+06363	
2213		050256		M=N-1	

2214	010660	000240			SCOPE		
2215	010662	022727	050257	050256	CMP	#50257, #50256	;SOURCE GREATER THAN DESTINATION
2216	010670	001001			BNE	.+4	
2217	010672	000000			HLT		;SHOULD NOT BE EQUAL
2218	010674	101001			BHI	.+4	
2219	010676	000000			HLT		;BGT FAILED
2220	010700	103001			BHIS	.+4	
2221	010702	000000			HLT		;BGE FAILED
2222	010704	000240			SCOPE		
2223	010706	022727	050256	050257	CMP	#50256, #50257	;SOURCE LESS THAN DESTINATION
2224	010714	001001			BNE	.+4	
2225	010716	000000			HLT		;SHOULD NOT BE EQUAL
2226	010720	103401			BLO	.+4	
2227	010722	000000			HLT		;50256 IS LESS THAN 50257
2228	010724	101401			BLOS	.+4	
2229	010726	000000			HLT		;50256 IS LESS THAN 50257
2230		056642			N=N+06363		
2231		056641			M=N-1		
2232	010730	000240			SCOPE		
2233	010732	022727	056642	056641	CMP	#56642, #56641	;SOURCE GREATER THAN DESTINATION
2234	010740	001001			BNE	.+4	
2235	010742	000000			HLT		;SHOULD NOT BE EQUAL
2236	010744	101001			BHI	.+4	
2237	010746	000000			HLT		;BGT FAILED
2238	010750	103001			BHIS	.+4	
2239	010752	000000			HLT		;BGE FAILED
2240	010754	000240			SCOPE		
2241	010756	022727	056641	056642	CMP	#56641, #56642	;SOURCE LESS THAN DESTINATION
2242	010764	001001			BNE	.+4	
2243	010766	000000			HLT		;SHOULD NOT BE EQUAL
2244	010770	103401			BLO	.+4	
2245	010772	000000			HLT		;56641 IS LESS THAN 56642
2246	010774	101401			BLOS	.+4	
2247	010776	000000			HLT		;56641 IS LESS THAN 56642
2248		065225			N=N+06363		
2249		065224			M=N-1		
2250	011000	000240			SCOPE		
2251	011002	022727	065225	065224	CMP	#65225, #65224	;SOURCE GREATER THAN DESTINATION
2252	011010	001001			BNE	.+4	
2253	011012	000000			HLT		;SHOULD NOT BE EQUAL
2254	011014	101001			BHI	.+4	
2255	011016	000000			HLT		;BGT FAILED
2256	011020	103001			BHIS	.+4	
2257	011022	000000			HLT		;BGE FAILED
2258	011024	000240			SCOPE		
2259	011026	022727	065224	065225	CMP	#65224, #65225	;SOURCE LESS THAN DESTINATION
2260	011034	001001			BNE	.+4	
2261	011036	000000			HLT		;SHOULD NOT BE EQUAL
2262	011040	103401			BLO	.+4	
2263	011042	000000			HLT		;65224 IS LESS THAN 65225
2264	011044	101401			BLOS	.+4	
2265	011046	000000			HLT		;65224 IS LESS THAN 65225
2266		073610			N=N+06363		
2267		073607			M=N-1		
2268	011050	000240			SCOPE		
2269	011052	022727	073610	073607	CMP	#73610, #73607	;SOURCE GREATER THAN DESTINATION

2270	011060	001001			BNE	.+4	
2271	011062	000000			HLT		; SHOULD NOT BE EQUAL
2272	011064	101001			BHI	.+4	
2273	011066	000000			HLT		; BGT FAILED
2274	011070	103001			BHIS	.+4	
2275	011072	000000			HLT		; BGE FAILED
2276	011074	000240			SCOPE		
2277	011076	022727	073607	073610	CMP	#73607, #73610	; SOURCE LESS THAN DESTINATION
2278	011104	001001			BNE	.+4	
2279	011106	000000			HLT		; SHOULD NOT BE EQUAL
2280	011110	103401			BLO	.+4	
2281	011112	000000			HLT		; 73607 IS LESS THAN 73610
2282	011114	101401			BLOS	.+4	
2283	011116	000000			HLT		; 73607 IS LESS THAN 73610
2284		102173			N=N+06363		
2285		102172			M=N-1		
2286	011120	000240			SCOPE		
2287	011122	022727	102173	102172	CMP	#102173, #102172	; SOURCE GREATER THAN DESTINATION
2288	011130	001001			BNE	.+4	
2289	011132	000000			HLT		; SHOULD NOT BE EQUAL
2290	011134	101001			BHI	.+4	
2291	011136	000000			HLT		; BGT FAILED
2292	011140	103001			BHIS	.+4	
2293	011142	000000			HLT		; BGE FAILED
2294	011144	000240			SCOPE		
2295	011146	022727	102172	102173	CMP	#102172, #102173	; SOURCE LESS THAN DESTINATION
2296	011154	001001			BNE	.+4	
2297	011156	000000			HLT		; SHOULD NOT BE EQUAL
2298	011160	103401			BLO	.+4	
2299	011162	000000			HLT		; 102172 IS LESS THAN 102173
2300	011164	101401			BLOS	.+4	
2301	011166	000000			HLT		; 102172 IS LESS THAN 102173
2302		110556			N=N+06363		
2303		110555			M=N-1		
2304	011170	000240			SCOPE		
2305	011172	022727	110556	110555	CMP	#110556, #110555	; SOURCE GREATER THAN DESTINATION
2306	011200	001001			BNE	.+4	
2307	011202	000000			HLT		; SHOULD NOT BE EQUAL
2308	011204	101001			BHI	.+4	
2309	011206	000000			HLT		; BGT FAILED
2310	011210	103001			BHIS	.+4	
2311	011212	000000			HLT		; BGE FAILED
2312	011214	000240			SCOPE		
2313	011216	022727	110555	110556	CMP	#110555, #110556	; SOURCE LESS THAN DESTINATION
2314	011224	001001			BNE	.+4	
2315	011226	000000			HLT		; SHOULD NOT BE EQUAL
2316	011230	103401			BLO	.+4	
2317	011232	000000			HLT		; 110555 IS LESS THAN 110556
2318	011234	101401			BLOS	.+4	
2319	011236	000000			HLT		; 110555 IS LESS THAN 110556
2320		117141			N=N+06363		
2321							
2322		000001			N=1		
2323		000000			M=N-1		
2324	011240	000240			SCOPE		
2325	011242	122727	000001	000000	CMPB	#1, #0	; SOURCE GREATER THAN DESTINATION

2326	011250	001001			BNE	.+4	
2327	011252	000000			HLT		; SHOULD NOT BE EQUAL
2328	011254	101001			BHI	.+4	
2329	011256	000000			HLT		; BGT FAILED
2330	011260	103001			BHIS	.+4	
2331	011262	000000			HLT		; BGE FAILED
2332	011264	000240			SCOPE		
2333	011266	122727	000000	000001	CMPB	#0, #1	; SOURCE LESS THAN DESTINATION
2334	011274	001001			BNE	.+4	
2335	011276	000000			HLT		; SHOULD NOT BE EQUAL
2336	011300	103401			BLO	.+4	
2337	011302	000000			HLT		; 0 IS LESS THAN 1
2338	011304	101401			BLOS	.+4	
2339	011306	000000			HLT		; 0 IS LESS THAN 1
2340		000004			N=N+3		
2341		000003			M=N-1		
2342	011310	000240			SCOPE		
2343	011312	122727	000004	000003	CMPB	#4, #3	; SOURCE GREATER THAN DESTINATION
2344	011320	001001			BNE	.+4	
2345	011322	000000			HLT		; SHOULD NOT BE EQUAL
2346	011324	101001			BHI	.+4	
2347	011326	000000			HLT		; BGT FAILED
2348	011330	103001			BHIS	.+4	
2349	011332	000000			HLT		; BGE FAILED
2350	011334	000240			SCOPE		
2351	011336	122727	000003	000004	CMPB	#3, #4	; SOURCE LESS THAN DESTINATION
2352	011344	001001			BNE	.+4	
2353	011346	000000			HLT		; SHOULD NOT BE EQUAL
2354	011350	103401			BLO	.+4	
2355	011352	000000			HLT		; 3 IS LESS THAN 4
2356	011354	101401			BLOS	.+4	
2357	011356	000000			HLT		; 3 IS LESS THAN 4
2358		000007			N=N+3		
2359		000006			M=N-1		
2360	011360	000240			SCOPE		
2361	011362	122727	000007	000006	CMPB	#7, #6	; SOURCE GREATER THAN DESTINATION
2362	011370	001001			BNE	.+4	
2363	011372	000000			HLT		; SHOULD NOT BE EQUAL
2364	011374	101001			BHI	.+4	
2365	011376	000000			HLT		; BGT FAILED
2366	011400	103001			BHIS	.+4	
2367	011402	000000			HLT		; BGE FAILED
2368	011404	000240			SCOPE		
2369	011405	122727	000006	000007	CMPB	#6, #7	; SOURCE LESS THAN DESTINATION
2370	011414	001001			BNE	.+4	
2371	011416	000000			HLT		; SHOULD NOT BE EQUAL
2372	011420	103401			BLO	.+4	
2373	011422	000000			HLT		; 6 IS LESS THAN 7
2374	011424	101401			BLOS	.+4	
2375	011426	000000			HLT		; 6 IS LESS THAN 7
2376		000012			N=N+3		
2377		000011			M=N-1		
2378	011430	000240			SCOPE		
2379	011432	122727	000012	000011	CMPB	#12, #11	; SOURCE GREATER THAN DESTINATION
2380	011440	001001			BNE	.+4	
2381	011442	000000			HLT		; SHOULD NOT BE EQUAL

2382	011444	101001		BHI	.+4	
2383	011446	000000		HLT		;BGT FAILED
2384	011450	103001		BHIS	.+4	
2385	011452	000000		HLT		;BGE FAILED
2386	011454	000240		SCOPE		
2387	011456	122727	000011 000012	CMPB	#11,#12	;SOURCE LESS THAN DESTINATION
2388	011464	001001		BNE	.+4	
2389	011466	000000		HLT		;SHOULD NOT BE EQUAL
2390	011470	103401		BLO	.+4	
2391	011472	000000		HLT		;11 IS LESS THAN 12
2392	011474	101401		BLOS	.+4	
2393	011476	000000		HLT		;11 IS LESS THAN 12
2394		000015		N=N+3		
2395		000014		M=N-1		
2396	011500	000240		SCOPE		
2397	011502	122727	000015 000014	CMPB	#15,#14	;SOURCE GREATER THAN DESTINATION
2398	011510	001001		BNE	.+4	
2399	011512	000000		HLT		;SHOULD NOT BE EQUAL
2400	011514	101001		BHI	.+4	
2401	011516	000000		HLT		;BGT FAILED
2402	011520	103001		BHIS	.+4	
2403	011522	000000		HLT		;BGE FAILED
2404	011524	000240		SCOPE		
2405	011526	122727	000014 000015	CMPB	#14,#15	;SOURCE LESS THAN DESTINATION
2406	011534	001001		BNE	.+4	
2407	011536	000000		HLT		;SHOULD NOT BE EQUAL
2408	011540	103401		BLO	.+4	
2409	011542	000000		HLT		;14 IS LESS THAN 15
2410	011544	101401		BLOS	.+4	
2411	011546	000000		HLT		;14 IS LESS THAN 15
2412		000020		N=N+3		
2413		000017		M=N-1		
2414	011550	000240		SCOPE		
2415	011552	122727	000020 000017	CMPB	#20,#17	;SOURCE GREATER THAN DESTINATION
2416	011560	001001		BNE	.+4	
2417	011562	000000		HLT		;SHOULD NOT BE EQUAL
2418	011564	101001		BHI	.+4	
2419	011566	000000		HLT		;BGT FAILED
2420	011570	103001		BHIS	.+4	
2421	011572	000000		HLT		;BGE FAILED
2422	011574	000240		SCOPE		
2423	011576	122727	000017 000020	CMPB	#17,#20	;SOURCE LESS THAN DESTINATION
2424	011604	001001		BNE	.+4	
2425	011606	000000		HLT		;SHOULD NOT BE EQUAL
2426	011610	103401		BLO	.+4	
2427	011612	000000		HLT		;17 IS LESS THAN 20
2428	011614	101401		BLOS	.+4	
2429	011616	000000		HLT		;17 IS LESS THAN 20
2430		000023		N=N+3		
2431		000022		M=N-1		
2432	011620	000240		SCOPE		
2433	011622	122727	000023 000022	CMPB	#23,#22	;SOURCE GREATER THAN DESTINATION
2434	011630	001001		BNE	.+4	
2435	011632	000000		HLT		;SHOULD NOT BE EQUAL
2436	011634	101001		BHI	.+4	
2437	011636	000000		HLT		;BGT FAILED

2438	011640	103001			BHIS	.+4	
2439	011642	000000			HLT		;BGE FAILED
2440	011644	000240			SCOPE		
2441	011646	122727	000022	000023	CMPB	#22, #23	;SOURCE LESS THAN DESTINATION
2442	011654	001001			BNE	.+4	
2443	011656	000000			HLT		;SHOULD NOT BE EQUAL
2444	011660	103401			BLO	.+4	
2445	011662	000000			HLT		;22 IS LESS THAN 23
2446	011664	101401			BLOS	.+4	
2447	011666	000000			HLT		;22 IS LESS THAN 23
2448		000026			N=N+3		
2449		000025			M=N-1		
2450	011670	000240			SCOPE		
2451	011672	122727	000026	000025	CMPB	#26, #25	;SOURCE GREATER THAN DESTINATION
2452	011700	001001			BNE	.+4	
2453	011702	000000			HLT		;SHOULD NOT BE EQUAL
2454	011704	101001			BHI	.+4	
2455	011706	000000			HLT		;BGT FAILED
2456	011710	103001			BHIS	.+4	
2457	011712	000000			HLT		;BGE FAILED
2458	011714	000240			SCOPE		
2459	011716	122727	000025	000026	CMPB	#25, #26	;SOURCE LESS THAN DESTINATION
2460	011724	001001			BNE	.+4	
2461	011726	000000			HLT		;SHOULD NOT BE EQUAL
2462	011730	103401			BLO	.+4	
2463	011732	000000			HLT		;25 IS LESS THAN 26
2464	011734	101401			BLOS	.+4	
2465	011736	000000			HLT		;25 IS LESS THAN 26
2466		000031			N=N+3		
2467		000030			M=N-1		
2468	011740	000240			SCOPE		
2469	011742	122727	000031	000030	CMPB	#31, #30	;SOURCE GREATER THAN DESTINATION
2470	011750	001001			BNE	.+4	
2471	011752	000000			HLT		;SHOULD NOT BE EQUAL
2472	011754	101001			BHI	.+4	
2473	011756	000000			HLT		;BGT FAILED
2474	011760	103001			BHIS	.+4	
2475	011762	000000			HLT		;BGE FAILED
2476	011764	000240			SCOPE		
2477	011766	122727	000030	000031	CMPB	#30, #31	;SOURCE LESS THAN DESTINATION
2478	011774	001001			BNE	.+4	
2479	011776	000000			HLT		;SHOULD NOT BE EQUAL
2480	012000	103401			BLO	.+4	
2481	012002	000000			HLT		;30 IS LESS THAN 31
2482	012004	101401			BLOS	.+4	
2483	012006	000000			HLT		;30 IS LESS THAN 31
2484		000034			N=N+3		
2485		000033			M=N-1		
2486	012010	000240			SCOPE		
2487	012012	122727	000034	000033	CMPB	#34, #33	;SOURCE GREATER THAN DESTINATION
2488	012020	001001			BNE	.+4	
2489	012022	000000			HLT		;SHOULD NOT BE EQUAL
2490	012024	101001			BHI	.+4	
2491	012026	000000			HLT		;BGT FAILED
2492	012030	103001			BHIS	.+4	
2493	012032	000000			HLT		;BGE FAILED

2494	012034	000240			SCOPE		
2495	012036	122727	000033	000034	CMPB	#33, #34	; SOURCE LESS THAN DESTINATION
2496	012044	001001			BNE	.+4	
2497	012046	000000			HLT		; SHOULD NOT BE EQUAL
2498	012050	103401			BLO	.+4	
2499	012052	000000			HLT		; 33 IS LESS THAN 34
2500	012054	101401			BLOS	.+4	
2501	012056	000000			HLT		; 33 IS LESS THAN 34
2502		000037			N=N+3		
2503		000036			M=N-1		
2504	012060	000240			SCOPE		
2505	012062	122727	000037	000036	CMPB	#37, #36	; SOURCE GREATER THAN DESTINATION
2506	012070	001001			BNE	.+4	
2507	012072	000000			HLT		; SHOULD NOT BE EQUAL
2508	012074	101001			BHI	.+4	
2509	012076	000000			HLT		; BGT FAILED
2510	012100	103001			BHIS	.+4	
2511	012102	000000			HLT		; BGE FAILED
2512	012104	000240			SCOPE		
2513	012106	122727	000036	000037	CMPB	#36, #37	; SOURCE LESS THAN DESTINATION
2514	012114	001001			BNE	.+4	
2515	012116	000000			HLT		; SHOULD NOT BE EQUAL
2516	012120	103401			BLO	.+4	
2517	012122	000000			HLT		; 36 IS LESS THAN 37
2518	012124	101401			BLOS	.+4	
2519	012126	000000			HLT		; 36 IS LESS THAN 37
2520		000042			N=N+3		
2521		000041			M=N-1		
2522	012130	000240			SCOPE		
2523	012132	122727	000042	000041	CMPB	#42, #41	; SOURCE GREATER THAN DESTINATION
2524	012140	001001			BNE	.+4	
2525	012142	000000			HLT		; SHOULD NOT BE EQUAL
2526	012144	101001			BHI	.+4	
2527	012146	000000			HLT		; BGT FAILED
2528	012150	103001			BHIS	.+4	
2529	012152	000000			HLT		; BGE FAILED
2530	012154	000240			SCOPE		
2531	012156	122727	000041	000042	CMPB	#41, #42	; SOURCE LESS THAN DESTINATION
2532	012164	001001			BNE	.+4	
2533	012166	000000			HLT		; SHOULD NOT BE EQUAL
2534	012170	103401			BLO	.+4	
2535	012172	000000			HLT		; 41 IS LESS THAN 42
2536	012174	101401			BLOS	.+4	
2537	012176	000000			HLT		; 41 IS LESS THAN 42
2538		000045			N=N+3		
2539		000044			M=N-1		
2540	012200	000240			SCOPE		
2541	012202	122727	000045	000044	CMPB	#45, #44	; SOURCE GREATER THAN DESTINATION
2542	012210	001001			BNE	.+4	
2543	012212	000000			HLT		; SHOULD NOT BE EQUAL
2544	012214	101001			BHI	.+4	
2545	012216	000000			HLT		; BGT FAILED
2546	012220	103001			BHIS	.+4	
2547	012222	000000			HLT		; BGE FAILED
2548	012224	000240			SCOPE		
2549	012226	122727	000044	000045	CMPB	#44, #45	; SOURCE LESS THAN DESTINATION

2550	012234	001001			BNE	.+4	
2551	012236	000000			HLT		; SHOULD NOT BE EQUAL
2552	012240	103401			BLO	.+4	
2553	012242	000000			HLT		; 44 IS LESS THAN 45
2554	012244	101401			BLOS	.+4	
2555	012246	000000			HLT		; 44 IS LESS THAN 45
2556		000050			N=N+3		
2557		000047			M=N-1		
2558	012250	000240			SCOPE		
2559	012252	122727	000050	000047	CMPB	#50, #47	; SOURCE GREATER THAN DESTINATION
2560	012260	001001			BNE	.+4	
2561	012262	000000			HLT		; SHOULD NOT BE EQUAL
2562	012264	101001			BHI	.+4	
2563	012266	000000			HLT		; BGT FAILED
2564	012270	103001			BHIS	.+4	
2565	012272	000000			HLT		; BGE FAILED
2566	012274	000240			SCOPE		
2567	012276	122727	000047	000050	CMPB	#47, #50	; SOURCE LESS THAN DESTINATION
2568	012304	001001			BNE	.+4	
2569	012306	000000			HLT		; SHOULD NOT BE EQUAL
2570	012310	103401			BLO	.+4	
2571	012312	000000			HLT		; 47 IS LESS THAN 50
2572	012314	101401			BLOS	.+4	
2573	012316	000000			HLT		; 47 IS LESS THAN 50
2574		000053			N=N+3		
2575		000052			M=N-1		
2576	012320	000240			SCOPE		
2577	012322	122727	000053	000052	CMPB	#53, #52	; SOURCE GREATER THAN DESTINATION
2578	012330	001001			BNE	.+4	
2579	012332	000000			HLT		; SHOULD NOT BE EQUAL
2580	012334	101001			BHI	.+4	
2581	012336	000000			HLT		; BGT FAILED
2582	012340	103001			BHIS	.+4	
2583	012342	000000			HLT		; BGE FAILED
2584	012344	000240			SCOPE		
2585	012346	122727	000052	000053	CMPB	#52, #53	; SOURCE LESS THAN DESTINATION
2586	012354	001001			BNE	.+4	
2587	012356	000000			HLT		; SHOULD NOT BE EQUAL
2588	012360	103401			BLO	.+4	
2589	012362	000000			HLT		; 52 IS LESS THAN 53
2590	012364	101401			BLOS	.+4	
2591	012366	000000			HLT		; 52 IS LESS THAN 53
2592		000056			N=N+3		
2593		000055			M=N-1		
2594	012370	000240			SCOPE		
2595	012372	122727	000056	000055	CMPB	#56, #55	; SOURCE GREATER THAN DESTINATION
2596	012400	001001			BNE	.+4	
2597	012402	000000			HLT		; SHOULD NOT BE EQUAL
2598	012404	101001			BHI	.+4	
2599	012406	000000			HLT		; BGT FAILED
2600	012410	103001			BHIS	.+4	
2601	012412	000000			HLT		; BGE FAILED
2602	012414	000240			SCOPE		
2603	012416	122727	000055	000056	CMPB	#55, #56	; SOURCE LESS THAN DESTINATION
2604	012424	001001			BNE	.+4	
2605	012426	000000			HLT		; SHOULD NOT BE EQUAL

2606	012430	103401			BLO	.+4	
2607	012432	000000			HLT		;55 IS LESS THAN 56
2608	012434	101401			BLOS	.+4	
2609	012436	000000			HLT		;55 IS LESS THAN 56
2610		000061			N=N+3		
2611		000060			M=N-1		
2612	012440	000240			SCOPE		
2613	012442	122727	000061	000060	CMPB	#61, #60	;SOURCE GREATER THAN DESTINATION
2614	012450	001001			BNE	.+4	
2615	012452	000000			HLT		;SHOULD NOT BE EQUAL
2616	012454	101001			BHI	.+4	
2617	012456	000000			HLT		;BGT FAILED
2618	012460	103001			BHIS	.+4	
2619	012462	000000			HLT		;BGE FAILED
2620	012464	000240			SCOPE		
2621	012466	122727	000060	000061	CMPB	#60, #61	;SOURCE LESS THAN DESTINATION
2622	012474	001001			BNE	.+4	
2623	012476	000000			HLT		;SHOULD NOT BE EQUAL
2624	012500	103401			BLO	.+4	
2625	012502	000000			HLT		;60 IS LESS THAN 61
2626	012504	101401			BLOS	.+4	
2627	012506	000000			HLT		;60 IS LESS THAN 61
2628		000064			N=N+3		
2629		000063			M=N-1		
2630	012510	000240			SCOPE		
2631	012512	122727	000064	000063	CMPB	#64, #63	;SOURCE GREATER THAN DESTINATION
2632	012520	001001			BNE	.+4	
2633	012522	000000			HLT		;SHOULD NOT BE EQUAL
2634	012524	101001			BHI	.+4	
2635	012526	000000			HLT		;BGT FAILED
2636	012530	103001			BHIS	.+4	
2637	012532	000000			HLT		;BGE FAILED
2638	012534	000240			SCOPE		
2639	012536	122727	000063	000064	CMPB	#63, #64	;SOURCE LESS THAN DESTINATION
2640	012544	001001			BNE	.+4	
2641	012546	000000			HLT		;SHOULD NOT BE EQUAL
2642	012550	103401			BLO	.+4	
2643	012552	000000			HLT		;63 IS LESS THAN 64
2644	012554	101401			BLOS	.+4	
2645	012556	000000			HLT		;63 IS LESS THAN 64
2646		000067			N=N+3		
2647		000066			M=N-1		
2648	012560	000240			SCOPE		
2649	012562	122727	000067	000066	CMPB	#67, #66	;SOURCE GREATER THAN DESTINATION
2650	012570	001001			BNE	.+4	
2651	012572	000000			HLT		;SHOULD NOT BE EQUAL
2652	012574	101001			BHI	.+4	
2653	012576	000000			HLT		;BGT FAILED
2654	012600	103001			BHIS	.+4	
2655	012602	000000			HLT		;BGE FAILED
2656	012604	000240			SCOPE		
2657	012606	122727	000066	000067	CMPB	#66, #67	;SOURCE LESS THAN DESTINATION
2658	012614	001001			BNE	.+4	
2659	012616	000000			HLT		;SHOULD NOT BE EQUAL
2660	012620	103401			BLO	.+4	
2661	012622	000000			HLT		;66 IS LESS THAN 67

2662	012624	101401			BLOS	.+4		
2663	012626	000000			HLT			;66 IS LESS THAN 67
2664		000072			N=N+3			
2665		000071			M=N-1			
2666	012630	000240			SCOPE			
2667	012632	122727	000072	000071	CMPB	#72,#71		;SOURCE GREATER THAN DESTINATION
2668	012640	001001			BNE	.+4		
2669	012642	000000			HLT			;SHOULD NOT BE EQUAL
2670	012644	101001			BHI	.+4		
2671	012646	000000			HLT			;BGT FAILED
2672	012650	103001			BHIS	.+4		
2673	012652	000000			HLT			;BGE FAILED
2674	012654	000240			SCOPE			
2675	012656	122727	000071	000072	CMPB	#71,#72		;SOURCE LESS THAN DESTINATION
2676	012664	001001			BNE	.+4		
2677	012666	000000			HLT			;SHOULD NOT BE EQUAL
2678	012670	103401			BLO	.+4		
2679	012672	000000			HLT			;71 IS LESS THAN 72
2680	012674	101401			BLOS	.+4		
2681	012676	000000			HLT			;71 IS LESS THAN 72
2682		000075			N=N+3			
2683		000074			M=N-1			
2684	012700	000240			SCOPE			
2685	012702	122727	000075	000074	CMPB	#75,#74		;SOURCE GREATER THAN DESTINATION
2686	012710	001001			BNE	.+4		
2687	012712	000000			HLT			;SHOULD NOT BE EQUAL
2688	012714	101001			BHI	.+4		
2689	012716	000000			HLT			;BGT FAILED
2690	012720	103001			BHIS	.+4		
2691	012722	000000			HLT			;BGE FAILED
2692	012724	000240			SCOPE			
2693	012726	122727	000074	000075	CMPB	#74,#75		;SOURCE LESS THAN DESTINATION
2694	012734	001001			BNE	.+4		
2695	012736	000000			HLT			;SHOULD NOT BE EQUAL
2696	012740	103401			BLO	.+4		
2697	012742	000000			HLT			;74 IS LESS THAN 75
2698	012744	101401			BLOS	.+4		
2699	012746	000000			HLT			;74 IS LESS THAN 75
2700		000100			N=N+3			
2701		000077			M=N-1			
2702	012750	000240			SCOPE			
2703	012752	122727	000100	000077	CMPB	#100,#77		;SOURCE GREATER THAN DESTINATION
2704	012760	001001			BNE	.+4		
2705	012762	000000			HLT			;SHOULD NOT BE EQUAL
2706	012764	101001			BHI	.+4		
2707	012766	000000			HLT			;BGT FAILED
2708	012770	103001			BHIS	.+4		
2709	012772	000000			HLT			;BGE FAILED
2710	012774	000240			SCOPE			
2711	012776	122727	000077	000100	CMPB	#77,#100		;SOURCE LESS THAN DESTINATION
2712	013004	001001			BNE	.+4		
2713	013006	000000			HLT			;SHOULD NOT BE EQUAL
2714	013010	103401			BLO	.+4		
2715	013012	000000			HLT			;77 IS LESS THAN 100
2716	013014	101401			BLOS	.+4		
2717	013016	000000			HLT			;77 IS LESS THAN 100

2718		000103		N=N+3		
2719		000102		M=N-1		
2720	013020	000240		SCOPE		
2721	013022	122727	000103 000102	CMPB	#103,#102	;SOURCE GREATER THAN DESTINATION
2722	013030	001001		BNE	.+4	
2723	013032	000000		HLT		;SHOULD NOT BE EQUAL
2724	013034	101001		BHI	.+4	
2725	013036	000000		HLT		;BGT FAILED
2726	013040	103001		BHIS	.+4	
2727	013042	000000		HLT		;BGE FAILED
2728	013044	000240		SCOPE		
2729	013046	122727	000102 000103	CMPB	#102,#103	;SOURCE LESS THAN DESTINATION
2730	013054	001001		BNE	.+4	
2731	013056	000000		HLT		;SHOULD NOT BE EQUAL
2732	013060	103401		BLO	.+4	;102 IS LESS THAN 103
2733	013062	000000		HLT		
2734	013064	101401		BLOS	.+4	;102 IS LESS THAN 103
2735	013066	000000		HLT		
2736		000106		N=N+3		
2737		000105		M=N-1		
2738	013070	000240		SCOPE		
2739	013072	122727	000106 000105	CMPB	#106,#105	;SOURCE GREATER THAN DESTINATION
2740	013100	001001		BNE	.+4	
2741	013102	000000		HLT		;SHOULD NOT BE EQUAL
2742	013104	101001		BHI	.+4	
2743	013106	000000		HLT		;BGT FAILED
2744	013110	103001		BHIS	.+4	
2745	013112	000000		HLT		;BGE FAILED
2746	013114	000240		SCOPE		
2747	013116	122727	000105 000106	CMPB	#105,#106	;SOURCE LESS THAN DESTINATION
2748	013124	001001		BNE	.+4	
2749	013126	000000		HLT		;SHOULD NOT BE EQUAL
2750	013130	103401		BLO	.+4	;105 IS LESS THAN 106
2751	013132	000000		HLT		
2752	013134	101401		BLOS	.+4	;105 IS LESS THAN 106
2753	013136	000000		HLT		
2754		000111		N=N+3		
2755		000110		M=N-1		
2756	013140	000240		SCOPE		
2757	013142	122727	000111 000110	CMPB	#111,#110	;SOURCE GREATER THAN DESTINATION
2758	013150	001001		BNE	.+4	
2759	013152	000000		HLT		;SHOULD NOT BE EQUAL
2760	013154	101001		BHI	.+4	
2761	013156	000000		HLT		;BGT FAILED
2762	013160	103001		BHIS	.+4	
2763	013162	000000		HLT		;BGE FAILED
2764	013164	000240		SCOPE		
2765	013166	122727	000110 000111	CMPB	#110,#111	;SOURCE LESS THAN DESTINATION
2766	013174	001001		BNE	.+4	
2767	013176	000000		HLT		;SHOULD NOT BE EQUAL
2768	013200	103401		BLO	.+4	;110 IS LESS THAN 111
2769	013202	000000		HLT		
2770	013204	101401		BLOS	.+4	;110 IS LESS THAN 111
2771	013206	000000		HLT		
2772		000114		N=N+3		
2773		000113		M=N-1		

2774	013210	000240			SCOPE		
2775	013212	122727	000114	000113	CMPB	#114,#113	;SOURCE GREATER THAN DESTINATION
2776	013220	001001			BNE	+.4	
2777	013222	000000			HLT		;SHOULD NOT BE EQUAL
2778	013224	101001			BHI	+.4	
2779	013226	000000			HLT		;BGT FAILED
2780	013230	103001			BHIS	+.4	
2781	013232	000000			HLT		;BGE FAILED
2782	013234	000240			SCOPE		
2783	013236	122727	000113	000114	CMPB	#113,#114	;SOURCE LESS THAN DESTINATION
2784	013244	001001			BNE	+.4	
2785	013246	000000			HLT		;SHOULD NOT BE EQUAL
2786	013250	103401			BLO	+.4	
2787	013252	000000			HLT		;113 IS LESS THAN 114
2788	013254	101401			BLOS	+.4	
2789	013256	000000			HLT		;113 IS LESS THAN 114
2790		000117			N=N+3		
2791		000116			M=N-1		
2792	013260	000240			SCOPE		
2793	013262	122727	000117	000116	CMPB	#117,#116	;SOURCE GREATER THAN DESTINATION
2794	013270	001001			BNE	+.4	
2795	013272	000000			HLT		;SHOULD NOT BE EQUAL
2796	013274	101001			BHI	+.4	
2797	013276	000000			HLT		;BGT FAILED
2798	013300	103001			BHIS	+.4	
2799	013302	000000			HLT		;BGE FAILED
2800	013304	000240			SCOPE		
2801	013306	122727	000116	000117	CMPB	#116,#117	;SOURCE LESS THAN DESTINATION
2802	013314	001001			BNE	+.4	
2803	013316	000000			HLT		;SHOULD NOT BE EQUAL
2804	013320	103401			BLO	+.4	
2805	013322	000000			HLT		;116 IS LESS THAN 117
2806	013324	101401			BLOS	+.4	
2807	013326	000000			HLT		;116 IS LESS THAN 117
2808		000122			N=N+3		
2809		000121			M=N-1		
2810	013330	000240			SCOPE		
2811	013332	122727	000122	000121	CMPB	#122,#121	;SOURCE GREATER THAN DESTINATION
2812	013340	001001			BNE	+.4	
2813	013342	000000			HLT		;SHOULD NOT BE EQUAL
2814	013344	101001			BHI	+.4	
2815	013346	000000			HLT		;BGT FAILED
2816	013350	103001			BHIS	+.4	
2817	013352	000000			HLT		;BGE FAILED
2818	013354	000240			SCOPE		
2819	013356	122727	000121	000122	CMPB	#121,#122	;SOURCE LESS THAN DESTINATION
2820	013364	001001			BNE	+.4	
2821	013366	000000			HLT		;SHOULD NOT BE EQUAL
2822	013370	103401			BLO	+.4	
2823	013372	000000			HLT		;121 IS LESS THAN 122
2824	013374	101401			BLOS	+.4	
2825	013376	000000			HLT		;121 IS LESS THAN 122
2826		000125			N=N+3		
2827		000124			M=N-1		
2828	013400	000240			SCOPE		
2829	013402	122727	000125	000124	CMPB	#125,#124	;SOURCE GREATER THAN DESTINATION

2830	013410	001001		BNE	.+4	
2831	013412	000000		HLT		; SHOULD NOT BE EQUAL
2832	013414	101001		BHI	.+4	
2833	013416	000000		HLT		; BGT FAILED
2834	013420	103001		BHIS	.+4	
2835	013422	000000		HLT		; BGE FAILED
2836	013424	000240		SCOPE		
2837	013426	122727	000124 000125	CMPB	#124, #125	; SOURCE LESS THAN DESTINATION
2838	013434	001001		BNE	.+4	
2839	013436	000000		HLT		; SHOULD NOT BE EQUAL
2840	013440	103401		BLO	.+4	
2841	013442	000000		HLT		; 124 IS LESS THAN 125
2842	013444	101401		BLOS	.+4	
2843	013446	000000		HLT		; 124 IS LESS THAN 125
2844		000130		N=N+3		
2845		000127		M=N-1		
2846	013450	000240		SCOPE		
2847	013452	122727	000130 000127	CMPB	#130, #127	; SOURCE GREATER THAN DESTINATION
2848	013460	001001		BNE	.+4	
2849	013462	000000		HLT		; SHOULD NOT BE EQUAL
2850	013464	101001		BHI	.+4	
2851	013466	000000		HLT		; BGT FAILED
2852	013470	103001		BHIS	.+4	
2853	013472	000000		HLT		; BGE FAILED
2854	013474	000240		SCOPE		
2855	013476	122727	000127 000130	CMPB	#127, #130	; SOURCE LESS THAN DESTINATION
2856	013504	001001		BNE	.+4	
2857	013506	000000		HLT		; SHOULD NOT BE EQUAL
2858	013510	103401		BLO	.+4	
2859	013512	000000		HLT		; 127 IS LESS THAN 130
2860	013514	101401		BLOS	.+4	
2861	013516	000000		HLT		; 127 IS LESS THAN 130
2862		000133		N=N+3		
2863		000132		M=N-1		
2864	013520	000240		SCOPE		
2865	013522	122727	000133 000132	CMPB	#133, #132	; SOURCE GREATER THAN DESTINATION
2866	013530	001001		BNE	.+4	
2867	013532	000000		HLT		; SHOULD NOT BE EQUAL
2868	013534	101001		BHI	.+4	
2869	013536	000000		HLT		; BGT FAILED
2870	013540	103001		BHIS	.+4	
2871	013542	000000		HLT		; BGE FAILED
2872	013544	000240		SCOPE		
2873	013546	122727	000132 000133	CMPB	#132, #133	; SOURCE LESS THAN DESTINATION
2874	013554	001001		BNE	.+4	
2875	013556	000000		HLT		; SHOULD NOT BE EQUAL
2876	013560	103401		BLO	.+4	
2877	013562	000000		HLT		; 132 IS LESS THAN 133
2878	013564	101401		BLOS	.+4	
2879	013566	000000		HLT		; 132 IS LESS THAN 133
2880		000136		N=N+3		
2881		000135		M=N-1		
2882	013570	000240		SCOPE		
2883	013572	122727	000136 000135	CMPB	#136, #135	; SOURCE GREATER THAN DESTINATION
2884	013600	001001		BNE	.+4	
2885	013602	000000		HLT		; SHOULD NOT BE EQUAL

2381	2383	2385	2389	2391	2393	2399	2401	2403	2407	2409	2411	2417
2419	2421	2425	2427	2429	2435	2437	2439	2443	2445	2447	2453	2455
2457	2461	2463	2465	2471	2473	2475	2479	2481	2483	2489	2491	2493
2497	2499	2501	2507	2509	2511	2515	2517	2519	2525	2527	2529	2533
2535	2537	2543	2545	2547	2551	2553	2555	2561	2563	2565	2569	2571
2573	2579	2581	2583	2587	2589	2591	2597	2599	2601	2605	2607	2609
2615	2617	2619	2623	2625	2627	2633	2635	2637	2641	2643	2645	2651
2653	2655	2659	2661	2663	2669	2671	2673	2677	2679	2681	2687	2689
2691	2695	2697	2699	2705	2707	2709	2713	2715	2717	2723	2725	2727
2731	2733	2735	2741	2743	2745	2749	2751	2753	2759	2761	2763	2767
2769	2771	2777	2779	2781	2785	2787	2789	2795	2797	2799	2803	2805
2807	2813	2815	2817	2821	2823	2825	2831	2833	2835	2839	2841	2843
2849	2851	2853	2857	2859	2861	2867	2869	2871	2875	2877	2879	2885
2887	2889	2893	2895	2897								
2899*	2905*											
460#	461	478#	479	496#	497	514#	515	532#	533	550#	551	568#
569	586#	587	604#	605	622#	623	640#	641	658#	659	676#	677
694#	695	712#	713	730#	731	748#	749	766#	767	784#	785	802#
803	820#	821	838#	839	856#	857	874#	875	892#	893	910#	911
928#	929	946#	947	964#	965	982#	983	1000#	1001	1018#	1019	1038#
1039	1056#	1057	1074#	1075	1092#	1093	1110#	1111	1128#	1129	1146#	1147
1164#	1165	1182#	1183	1200#	1201	1218#	1219	1236#	1237	1254#	1255	1272#
1273	1290#	1291	1308#	1309	1326#	1327	1344#	1345	1362#	1363	1380#	1381
1398#	1399	1416#	1417	1434#	1435	1452#	1453	1470#	1471	1488#	1489	1506#
1507	1524#	1525	1542#	1543	1560#	1561	1578#	1579	1596#	1597	1745#	1746
1763#	1764	1781#	1782	1799#	1800	1817#	1818	1835#	1836	1853#	1854	1871#
1872	1889#	1890	1907#	1908	1925#	1926	1943#	1944	1961#	1962	1979#	1980
1997#	1998	2015#	2016	2033#	2034	2051#	2052	2069#	2070	2087#	2088	2105#
2106	2123#	2124	2141#	2142	2159#	2160	2177#	2178	2195#	2196	2213#	2214
2231#	2232	2249#	2250	2267#	2268	2285#	2286	2303#	2304	2323#	2324	2341#
2342	2359#	2360	2377#	2378	2395#	2396	2413#	2414	2431#	2432	2449#	2450
2467#	2468	2485#	2486	2503#	2504	2521#	2522	2539#	2540	2557#	2558	2575#
2576	2593#	2594	2611#	2612	2629#	2630	2647#	2648	2665#	2666	2683#	2684
2701#	2702	2719#	2720	2737#	2738	2755#	2756	2773#	2774	2791#	2792	2809#
2810	2827#	2828	2845#	2846	2863#	2864	2881#	2882				
459#	460	461	477#	478	479	495#	496	497	513#	514	515	531#
532	533	549#	550	551	567#	568	569	585#	586	587	603#	604
605	621#	622	623	639#	640	641	657#	658	659	675#	676	677
693#	694	695	711#	712	713	729#	730	731	747#	748	749	765#
766	767	783#	784	785	801#	802	803	819#	820	821	837#	838
839	855#	856	857	873#	874	875	891#	892	893	909#	910	911
927#	928	929	945#	946	947	963#	964	965	981#	982	983	999#
1000	1001	1017#	1018	1019	1035#	1037#	1038	1039	1055#	1056	1057	1073#
1074	1075	1091#	1092	1093	1109#	1110	1111	1127#	1128	1129	1145#	1146
1147	1163#	1164	1165	1181#	1182	1183	1199#	1200	1201	1217#	1218	1219
1235#	1236	1237	1253#	1254	1255	1271#	1272	1273	1289#	1290	1291	1307#
1308	1309	1325#	1326	1327	1343#	1344	1345	1361#	1362	1363	1379#	1380
1381	1397#	1398	1399	1415#	1416	1417	1433#	1434	1435	1451#	1452	1453
1469#	1470	1471	1487#	1488	1489	1505#	1506	1507	1523#	1524	1525	1541#
1542	1543	1559#	1560	1561	1577#	1578	1579	1595#	1596	1597	1613#	1744#
1745	1746	1762#	1763	1764	1780#	1781	1782	1798#	1799	1800	1816#	1817
1818	1834#	1835	1836	1852#	1853	1854	1870#	1871	1872	1888#	1889	1890
1906#	1907	1908	1924#	1925	1926	1942#	1943	1944	1960#	1961	1962	1978#
1979	1980	1996#	1997	1998	2014#	2015	2016	2032#	2033	2034	2050#	2051
2052	2068#	2069	2070	2086#	2087	2088	2104#	2105	2106	2122#	2123	2124
2140#	2141	2142	2158#	2159	2160	2176#	2177	2178	2194#	2195	2196	2212#

LOOP = 013666
M = 000135

N = 000141

SCOPE = 000240

= 013670

2213	2214	2230#	2231	2232	2248#	2249	2250	2266#	2267	2268	2284#	2285
2286	2302#	2303	2304	2320#	2322#	2323	2324	2340#	2341	2342	2358#	2359
2360	2376#	2377	2378	2394#	2395	2396	2412#	2413	2414	2430#	2431	2432
2448#	2449	2450	2466#	2467	2468	2484#	2485	2486	2502#	2503	2504	2520#
2521	2522	2538#	2539	2540	2556#	2557	2558	2574#	2575	2576	2592#	2593
2594	2610#	2611	2612	2628#	2629	2630	2646#	2647	2648	2664#	2665	2666
2682#	2683	2684	2700#	2701	2702	2718#	2719	2720	2736#	2737	2738	2754#
2755	2756	2772#	2773	2774	2790#	2791	2792	2808#	2809	2810	2826#	2827
2828	2844#	2845	2846	2862#	2863	2864	2880#	2881	2882	2898#		
260#	265	273	281	289	297	305	313	321	329	337	346	354
362	370	378	386	394	402	410	418	426	434	442	450	461
469	479	487	497	505	515	523	533	541	551	559	569	577
587	595	605	613	623	631	641	649	659	667	677	685	695
703	713	721	731	739	749	757	767	775	785	793	803	811
821	829	839	847	857	865	875	883	893	901	911	919	929
937	947	955	965	973	983	991	1001	1009	1019	1027	1039	1047
1057	1065	1075	1083	1093	1101	1111	1119	1129	1137	1147	1155	1165
1173	1183	1191	1201	1209	1219	1227	1237	1245	1255	1263	1273	1281
1291	1299	1309	1317	1327	1335	1345	1353	1363	1371	1381	1389	1399
1407	1417	1425	1435	1443	1453	1461	1471	1479	1489	1497	1507	1515
1525	1533	1543	1551	1561	1569	1579	1587	1597	1605	1616	1624	1632
1640	1648	1656	1664	1672	1680	1688	1696	1704	1712	1720	1728	1736
1746	1754	1764	1772	1782	1790	1800	1808	1818	1826	1836	1844	1854
1862	1872	1880	1890	1898	1908	1916	1926	1934	1944	1952	1962	1970
1980	1988	1998	2006	2016	2024	2034	2042	2052	2060	2070	2078	2088
2096	2106	2114	2124	2132	2142	2150	2160	2168	2178	2186	2196	2204
2214	2222	2232	2240	2250	2258	2268	2276	2286	2294	2304	2312	2324
2332	2342	2350	2360	2368	2378	2386	2396	2404	2414	2422	2432	2440
2450	2458	2468	2476	2486	2494	2504	2512	2522	2530	2540	2548	2558
2566	2576	2584	2594	2602	2612	2620	2630	2638	2648	2656	2666	2674
2684	2692	2702	2710	2720	2728	2738	2746	2756	2764	2774	2782	2792
2800	2810	2818	2828	2836	2846	2854	2864	2872	2882	2890		
261#	267	269	271	275	277	279	283	285	287	291	293	295
299	301	303	307	309	311	315	317	319	323	325	327	331
333	335	339	341	343	348	350	352	356	358	360	364	366
369	372	374	376	380	382	384	388	390	392	396	398	400
404	406	408	412	414	416	420	422	424	428	430	432	436
438	440	444	446	448	452	454	456	463	465	467	471	473
475	481	483	485	489	491	493	499	501	503	507	509	511
517	519	521	525	527	529	535	537	539	543	545	547	553
555	557	561	563	565	571	573	575	579	581	583	589	591
593	597	599	601	607	609	611	615	617	619	625	627	629
633	635	637	643	645	647	651	653	655	661	663	665	669
671	673	679	681	683	687	689	691	697	699	701	705	707
709	715	717	719	723	725	727	733	735	737	741	743	745
751	753	755	759	761	763	769	771	773	777	779	781	787
789	791	795	797	799	805	807	809	813	815	817	823	825
827	831	833	835	841	843	845	849	851	853	859	861	863
867	869	871	877	879	881	885	887	889	895	897	899	903
905	907	913	915	917	921	923	925	931	933	935	939	941
943	949	951	953	957	959	961	967	969	971	975	977	979
985	987	989	993	995	997	1003	1005	1007	1011	1013	1015	1021
1023	1025	1029	1031	1033	1041	1043	1045	1049	1051	1053	1059	1061
1063	1067	1069	1071	1077	1079	1081	1085	1087	1089	1095	1097	1099
1103	1105	1107	1113	1115	1117	1121	1123	1125	1131	1133	1135	1139
1141	1143	1149	1151	1153	1157	1159	1161	1167	1169	1171	1175	1177

1179	1185	1187	1189	1193	1195	1197	1203	1205	1207	1211	1213	1215
1221	1223	1225	1229	1231	1233	1239	1241	1243	1247	1249	1251	1257
1259	1261	1265	1267	1269	1275	1277	1279	1283	1285	1287	1293	1295
1297	1301	1303	1305	1311	1313	1315	1319	1321	1323	1329	1331	1333
1337	1339	1341	1347	1349	1351	1355	1357	1359	1365	1367	1369	1373
1375	1377	1383	1385	1387	1391	1393	1395	1401	1403	1405	1409	1411
1413	1419	1421	1423	1427	1429	1431	1437	1439	1441	1445	1447	1449
1455	1457	1459	1463	1465	1467	1473	1475	1477	1481	1483	1485	1491
1493	1495	1499	1501	1503	1509	1511	1513	1517	1519	1521	1527	1529
1531	1535	1537	1539	1545	1547	1549	1553	1555	1557	1563	1565	1567
1571	1573	1575	1581	1583	1585	1589	1591	1593	1599	1601	1603	1607
1609	1611	1618	1620	1622	1626	1628	1630	1634	1636	1638	1642	1644
1646	1650	1652	1654	1658	1660	1662	1666	1668	1670	1674	1676	1678
1682	1684	1686	1690	1692	1694	1698	1700	1702	1706	1708	1710	1714
1716	1718	1722	1724	1726	1730	1732	1734	1738	1740	1742	1748	1750
1752	1756	1758	1760	1766	1768	1770	1774	1776	1778	1784	1786	1788
1792	1794	1796	1802	1804	1806	1810	1812	1814	1820	1822	1824	1828
1830	1832	1838	1840	1842	1846	1848	1850	1856	1858	1860	1864	1866
1868	1874	1876	1878	1882	1884	1886	1892	1894	1896	1900	1902	1904
1910	1912	1914	1918	1920	1922	1928	1930	1932	1936	1938	1940	1946
1948	1950	1954	1956	1958	1964	1966	1968	1972	1974	1976	1982	1984
1986	1990	1992	1994	2000	2002	2004	2008	2010	2012	2018	2020	2022
2026	2028	2030	2036	2038	2040	2044	2046	2048	2054	2056	2058	2062
2064	2066	2072	2074	2076	2080	2082	2084	2090	2092	2094	2098	2100
2102	2108	2110	2112	2116	2118	2120	2126	2128	2130	2134	2136	2138
2144	2146	2148	2152	2154	2156	2162	2164	2166	2170	2172	2174	2180
2182	2184	2188	2190	2192	2198	2200	2202	2206	2208	2210	2216	2218
2220	2224	2226	2228	2234	2236	2238	2242	2244	2246	2252	2254	2256
2260	2262	2264	2270	2272	2274	2278	2280	2282	2288	2290	2292	2296
2298	2300	2306	2308	2310	2314	2316	2318	2326	2328	2330	2334	2336
2338	2344	2346	2348	2352	2354	2356	2362	2364	2366	2370	2372	2374
2380	2382	2384	2388	2390	2392	2398	2400	2402	2406	2408	2410	2416
2418	2420	2424	2426	2428	2434	2436	2438	2442	2444	2446	2452	2454
2456	2460	2462	2464	2470	2472	2474	2478	2480	2482	2488	2490	2492
2496	2498	2500	2506	2508	2510	2514	2516	2518	2524	2526	2528	2532
2534	2536	2542	2544	2546	2550	2552	2554	2560	2562	2564	2568	2570
2572	2578	2580	2582	2586	2588	2590	2596	2598	2600	2604	2606	2608
2614	2616	2618	2622	2624	2626	2632	2634	2636	2640	2642	2644	2650
2652	2654	2658	2660	2662	2668	2670	2672	2676	2678	2680	2686	2688
2690	2694	2696	2698	2704	2706	2708	2712	2714	2716	2722	2724	2726
2730	2732	2734	2740	2742	2744	2748	2750	2752	2758	2760	2762	2766
2768	2770	2776	2778	2780	2784	2786	2788	2794	2796	2798	2802	2804
2806	2812	2814	2816	2820	2822	2824	2830	2832	2834	2838	2840	2842
2848	2850	2852	2856	2858	2860	2866	2868	2870	2874	2876	2878	2884
2886	2888	2892	2894	2896	2903							

.SPOWE 1#
.SRAND 1#
.SRDDE 1#
.SRDOC 1#
.SREAD 1#
.SR2AZ 1#
.\$SAVE 1#
.\$SB2D 1#
.\$SB2O 1#
.\$SCOP 1#
.\$SIZE 1#
.\$SUPR 1#
.\$STRAP 1#
.\$STYPB 1#
.\$STYPD 1#
.\$STYPE 1#
.\$STYPO 1#
.\$4OCA 1#
.1170 1#

M05

.MAIN. MACY11 27(732) 01-OCT-76 10:12 PAGE 68
 DOGA.P11 CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

	1856	1864	1874	1882	1892	1900	1910	1918	1928	1936	1946	1954	1964	1972	1982
	1990	2000	2008	2018	2026	2036	2044	2054	2062	2072	2080	2090	2098	2108	2116
	2126	2134	2144	2152	2162	2170	2180	2188	2198	2206	2216	2224	2234	2242	2252
	2260	2270	2278	2288	2296	2306	2314	2326	2334	2344	2352	2362	2370	2380	2388
	2398	2406	2416	2424	2434	2442	2452	2460	2470	2478	2488	2496	2506	2514	2524
	2532	2542	2550	2560	2568	2578	2586	2596	2604	2614	2622	2632	2640	2650	2658
	2668	2676	2686	2694	2704	2712	2722	2730	2740	2748	2758	2766	2776	2784	2794
	2802	2812	2820	2830	2838	2848	2856	2866	2874	2884	2892	2900			
BPL	2903														
CMP	266	274	282	290	298	306	314	322	330	338	462	470	480	488	498
	506	516	524	534	542	552	560	570	578	588	596	606	614	624	632
	642	650	660	668	678	686	696	704	714	722	732	740	750	758	768
	776	786	794	804	812	822	830	840	848	858	866	876	884	894	902
	912	920	930	938	948	956	966	974	984	992	1002	1010	1020	1028	1617
	1625	1633	1641	1649	1657	1665	1673	1681	1689	1747	1755	1765	1773	1783	1791
	1801	1809	1819	1827	1837	1845	1855	1863	1873	1881	1891	1899	1909	1917	1927
	1935	1945	1953	1963	1971	1981	1989	1999	2007	2017	2025	2035	2043	2053	2061
	2071	2079	2089	2097	2107	2115	2125	2133	2143	2151	2161	2169	2179	2187	2197
CMPB	2205	2215	2223	2233	2241	2251	2259	2269	2277	2287	2295	2305	2313		
	347	355	363	371	379	387	395	403	411	419	427	435	443	451	1040
	1048	1058	1066	1076	1084	1094	1102	1112	1120	1130	1138	1148	1156	1166	1174
	1184	1192	1202	1210	1220	1228	1238	1246	1256	1264	1274	1282	1292	1300	1310
	1318	1328	1336	1346	1354	1364	1372	1382	1390	1400	1408	1418	1426	1436	1444
	1454	1462	1472	1480	1490	1498	1508	1516	1526	1534	1544	1552	1562	1570	1580
	1588	1598	1606	1697	1705	1713	1721	1729	1737	2325	2333	2343	2351	2361	2369
	2379	2387	2397	2405	2415	2423	2433	2441	2451	2459	2469	2477	2487	2495	2505
	2513	2523	2531	2541	2549	2559	2567	2577	2585	2595	2603	2613	2621	2631	2639
	2649	2657	2667	2675	2685	2693	2703	2711	2721	2729	2739	2747	2757	2765	2775
	2783	2793	2801	2811	2819	2829	2837	2847	2855	2865	2873	2883	2891		
INC	2899														
JMP	2904														
MOV	2901														
TSTB	2902														
.ENABL	1														
.END	2906														
.LIST	1														
.MACR	264	1615													
.MACRO	1														
.NLIST	1														
.REM	1														
.REPT	460	1038	1745	2323											

ERRORS DETECTED: 0
 DEFAULT GLOBALS GENERATED: 0

*.DOGA.SEQ/SOL/CRF/PAGNUM/NL:TOC=SYSMAC.CO,DOGA.P11
 RUN-TIME: 27 37 3 SECONDS
 RUN-TIME RATIO: 222/69=3.2
 CORE USED: 32K (63 PAGES)

