ASSIST/I Version 2.03, Copyright 1984, BDM Software.

## GRADE RUN FOR:

```
PAGE 1
 LOC OBJECT CODE
                      ADDR1 ADDR2
                                    STMT
                                            SOURCE STATEMENT
                                      3 * MICHAEL BEAVER
                                      4 * CS 310, SPRING 2013
                                           PROGRAM 1
                                           DUE: FEBRUARY 20, 2013
                                      7 *
                                      8 * DESCRIPTION:
                                      9 ×
                                             THIS PROGRAM EXPECTS AS INPUT *
                                     10 *
                                             AN UNKNOWN NUMBER OF DATA
                                     11 *
                                             LINES. EACH DATA LINE CONTAINS *
                                     12 *
                                             THREE INTEGERS (SEPARATED
                                     13 *
                                             BY ONE OR MORE BLANKS). THE
                                     14 *
                                             PROGRAM THEN DETERMINES THE
                                     15 *
                                             LARGEST VALUE ON EACH LINE AND *
                                     16 *
                                             PRINTS THE VALUE. THE PROGRAM *
                                     17 *
                                             ALSO SUMS UP THE LARGEST
                                     18 *
                                             VALUES. THE SUM IS PRINTED.
                                     19 ×
                                     20 * NOTE:
                                             COMPLETELY BLANK DATA LINES
                                     21 *
                                     22 *
                                             ARE TREATED AS HAVING THE
                                     23 *
                                             SAME DATA AS THE PREVIOUS
                                     24 *
                                             DATA LINE.
                                     25 *
                                     26 * REGISTER KEY:
                                     27 ×
                                             REG2 -> 1ST VALUE ON LINE
                                             REG3 -> 2ND VALUE ON LINE
                                     28 ×
                                     29 *
                                             REG4 -> 3RD VALUE ON LINE
                                     30 ×
                                             REG5 -> LARGEST VALUE ON LINE
                                     31 *
                                             REG6 -> SUM OF LARGEST VALUES
000000
                                     35 BEAVER1 START
                                     38 ×
                                     39 *
                                                 BEGINNING HOUSEKEEPING
                                     40 *
```

000000 000004 000006	05C0		0000C	42 43 44			14,12,12(13) 12,0 SAVING,12	
000006 00000A			00084 00080	45 46	SAVING	ST La	13,SAVEAREA+4 13,SAVEAREA	
				48 49		*****	**************************************	
				50		MATI	N PROGRAM BODY *	
				51		111111	* *	
						*****	***********	
00000E	1B66			53		SR	6.6	ZERO-OUT REG6 FOR ACCUMULATOR
							-,-	
				55	×			
				56	* READ	UNTIL 1	EOF	
				57	*			
000010	E000	COC2 0050 0000	8	58	TOPREAD	XREAD	CARD,80	
000016	4740	C05E	00064	59		BC	B'0100',ENDREAD	EOF => EXIT THE LOOP
				61	*			
						EVE THI	E THREE VALUES	
				63				
00001A			000C8	64			2,CARD	RETRIEVE 1ST NUMBER ON LINE
00001E			00000	65			3,0(1)	RETRIEVE 2ND NUMBER ON LINE
000022	5341	0000	00000	66		XDECI	4,0(1)	RETRIEVE 3RD NUMBER ON LINE
				68	* COMPA	DE NIIMI	DFDC	
				70		NE HUIII	DENO	
000026	1923			71		CR	2,3	
000028		C026	00030	72	11	BC	B'1010', THEN	1ST NUMBER >= 2ND NUMBER
00002C			00036	73		BC	B'0100', ELSE	1ST NUMBER < 2ND NUMBER
000030		0000	VVV30		THEN	CR	2,4	101 Hondan ( Linz Hondan
000032	47A0	C03A	00040	75		BC	B'1010', SAVE1	1ST NUMBER IS LARGEST
000036					ELSE	CR	3,4	
000038	47A0	C040	00046	77		BC	B'1010',SAVE2	2ND NUMBER IS LARGEST
00003C	4740	C046	0004C	78		BC	B'0100',SAVE3	3RD NUMBER IS LARGEST
000040 000042		C048	0004E	82 83 84 86	* 1ST N * SAVE1 * * 2ND N	LR BC	IS LARGEST, SO SAVE IT 5,2 B'1111',PRINT IS LARGEST, SO SAVE IT	

```
000046 1853
                                   89 SAVEZ
                                                     5.3
                                               LR
000048 47F0 C048
                                                     B'1111', PRINT
                          0004E
                                   90
                                               BC
                                   92 *
                                   93 * 3RD NUMBER IS LARGEST, SO SAVE IT
                                   94 *
00004C 1854
                                   95 SAVE3
                                               LR
                                                     5,4
                                   97 ×
                                   98 * OUTPUT LARGEST NUMBER
                                   99 *
00004E 5250 C113
                          00119
                                  100 PRINT
                                               XDECO 5, OUTLINE
000052 E020 C11F 0017 00125
                                  101
                                               XPRNT LRGHEAD,23
000058 E020 C112 000D 00118
                                  102
                                               XPRNT CARRIAGE, 13
                                                     6.5
00005E 1A65
                                  104
                                               ΑR
                                                                            ADD LARGEST VALUE TO SUM
                                                    B'1111', TOPREAD
000060 47F0 C00A
                          00010
                                  105
                                               BC
                                  107 *
                                  108 * OUTPUT SUM OF LARGEST VALUES
                                  109 *
                                  110 ENDREAD XDECO 6, OUTLINE
000064 5260 C113
                          00119
000068 E020 C136 0017 0013C
                                               XPRNT SUMHEAD,23
                                  111
00006E E020 C112 000D 00118
                                  112
                                               XPRNT CARRIAGE, 13
                                  114 *********************
                                  115 ×
                                  116 *
                                               ENDING HOUSEKEEPING
                                  117 *
                                  118 ************************
000074 58D0 C07E
                          00084
                                  119
                                               L
                                                    13,SAVEAREA+4
000078 98EC D00C
                          0000C
                                  120
                                               LM
                                                     14,12,12(13)
00007C 07FE
                                  121
                                               BR
                                                    14
                                  123 ***********************
                                  124 ×
                                  125 ×
                                          DECLARE STORAGE AND CONSTANTS
                                  126 ×
                                  127 ***********************
000080
                                  128 SAVEAREA DS
                                                     18F
000008
                                  129 CARD
                                                     CL80
                                               DS
000118 4E
                                  130 CARRIAGE DC
                                                     C'+'
000119
                                  131 OUTLINE DS
                                                     CL12
000125 40E3C8C540D3C1D9
                                  132 LRGHEAD
                                              DC
                                                     C' THE LARGEST VALUE IS: '
00013C F040404040404040
                                  133 SUMHEAD DC
                                                     C'O
                                                            THE SUM IS: '
```

\*\*\* 0 STATEMENTS FLAGGED - 0 WARNINGS, 0 ERRORS

\*\*\* PROGRAM EXECUTION BEGINNING ANY OUTPUT BEFORE EXECUTION COMPLETE MESSAGE IS PRODUCED BY USER PROGRAM \*\*\*

THE SUM IS: 0

\*\*\* EXECUTION COMPLETED \*\*\*