GRADE RUN FOR:

PROGRAM PROLOGUE LOC OBJECT CODE	ADDR1 ADDR2	STMT	SOURCE STATEMENT	PAGE	1
		2 **	********************	**	
		3 ×	MICHAEL BEAUER	×	
		4 ×	CS 310, SPRING 2013	*	
		5 ×	PROGRAM 4	×	
		6 ×	DUE: APRIL 3, 2013	×	
		7 ×		×	
		8 ×	DESCRIPTION:	×	
		9 ×	THIS PROGRAM EXPECTS AS INPUT A DATA FILE WITH AN UNKNOWN NUMBE	R∗	
		10 *	OF DATA LINES. THE DATA FOLLOWS A SPECIFIC FORMAT WHERE EACH	*	
		11 *	GROUP OF FIVE LINES REPRESENTS A PERSON'S DATA: FIRST, MIDDLE,	*	
		12 *	AND LAST NAMES; STREET ADDRESS; CITY; STATE ABBREVIATION; AND,	×	
		13 *	ZIP CODE. THE PROGRAM CONVERTS THIS 5-LINE FORMAT INTO A 3-LINE	*	
		14 *	FORMAT AND PRINTS THE RESULT. EACH 3-LINE DATA GROUP IS	*	
		15 ×	SEPARATED BY A GROUP OF THREE BLANK LINES. THE PROGRAM THEN	×	
		16 *	TERMINATES AFTER REACHING THE END OF THE DATA FILE.	*	
		17 *		×	
		18 ×	INTERNAL SUBROUTINES:	*	
		19 ×	READDATA: MAIN SUBROUTINE CALLS THE FOLLOWING SUBROUTINES TO	*	
		20 *	READ IN AND FORMAT DATA FOR OUTPUT	*	
		21 *	MAKENAME: FORMATS THE NAME LINE: LAST, FIRST M.	×	
		22 *	STRADDR: SIMPLY PRINTS THE ADDRESS LINE FROM THE DATA FILE	*	
		23 *	CTYSTZIP: FORMATS THE CITY, STATE, AND ZIP CODE: CITY, ST ZIP	*	
		24 *	FINDBLNK: FINDS THE FIRST BLANK IN A MEMORY LOCATION (POINTED	*	
		25 *	TO BY REG2)THE RESULT IS RETURNED IN REG2	*	
		26 ×	CASCBLNK: CASCADES BLANK CHARACTERS INTO THE OUTLINE MEMORY	*	

27 *********************

MAIN PROGRAM						PAGE
LOC OBJECT CODE	ADDR1 ADDR2	STMT SOUR	CE STA	TEMENT		
		29 ******	*****	*******	*************	***
		30 * REGIS				*
		31 * REG	11: US	ED TO CALL READDATA :	SUBROUTINE	*
		32 *****	*****	*******	**********	***
000000		33 MBPROG4	START	•		
000000 90EC D00C	0000C	34	STM	14,12,12(13)	BEGINNING HOUSEKEEPING	
000004 05C0		35	BALR	12,0		
000006		36	USING	SAVING,12		
000006 50D0 C01A	00020	37 SAVING	ST	13,SAVEAREA+4		
00000A 41D0 C016	0001C	38	LA	13,SAVEAREA		
00000E 45B0 C104	0010A	40	BAL	11,READDATA	ALL ACTION BEGINS HERE	
000012 58D0 C01A	00020	42	L	13,SAVEAREA+4	ENDING HOUSEKEEPING	
000016 98EC D00C	0000C	43	ĹM	14,12,12(13)	ZIIZIIIG IIGGGZIIZZI IIIG	
00001A 07FE	***************************************	44	BR	14		
00001C		46 SAVEAREA	ne	18F		
000010		47 REGSAVE	טע ו DS	16F		
0000A4		48 CARD	DS DS	CL50		
0000D6 40		49 CARRIAGE		C, ,		
0000D7		50 OUTLINE	DS	CL50		
VVVVDI		20 00171117	טע	0H30		

READDATA: CONVERT FROM 5-LINE FORMAT TO 3-LINE FORMAT LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT

100	ODOLOT COPE		,,,,,	OL 0111	1 2 11 2 11 1	
00010	A 900F C05E	00064	53 * REGIS 54 * REG 55 *****	TER KE 11: US:	Y: ED TO CALL OTHER S	**************************************
	E E000 C09E 003 4 4740 C134	2 000A4 0013A	58 READTOP 59	XREAD BC	CARD,50 B'0100',READEND	READ UNTIL EOF
00011	8 45B0 C13A C 45B0 C1A4 0 45B0 C1B6	00140 001AA 001BC	61 62 63	BAL BAL BAL	11,MAKENAME 11,STRADDR 11,CTYSTZIP	CONVERT FROM 5-LINE TO 3-LINE
00012	4 E020 C0D0 000: A E020 C0D0 000: 0 E020 C0D0 000:	1 000D6	65 66 67	XPRNT	CARRIAGE,1 CARRIAGE,1 CARRIAGE,1	3-LINE SEPARATOR (BLANKS)
00013	6 47F0 C108	0010E	69	В	READTOP	
	A 980F C05E E 07FB	00064	71 READEND 72	LM BR	0,15,REGSAVE 11	

FORMAT NAME: LAST, FIRST M.
LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT

LOC	OBJEC	T CO	DE	ADDR1	ADDR2	STMI	SOUR	CE S	TAT	TEMENT	
						74	******	****	***	**************	*********
							* REGIS				*
						76					AREA TO FIND INITIAL BLANKS: *
						77				EP SIZE (1) FOR LOOPS	
						78				RMINAL VALUE (BLANK I	
						79				INTER TO OUTLINE MEMO	
						80				INTER TO THE END OF 1	
						81	* RE	G7:	POI	INTER TO THE MIDDLE N	YAME *
						82					IG OF THE LAST NAME; POINTER *
						83	*		TO	MEMORY TO BE COPIED	INTO OUTLINE MEMORY (VIA LOOPS) *
						84	* REG	10:	USE	ED TO CALL OTHER SUBI	ROUTINES *
						85	* REG	11:	USE	ED TO RETURN TO CALL	ING SUBROUTINE *
						86	*****	***	***	**************	*********
000140	45A0	C232			00238	87	MAKENAME	BAL		10,CASCBLNK	
000144	4120	COSE			000A4	89		LA		2,CARD	FIND BLANK AFTER FIRST NAME
000111					0021E	90		BAL		10,FINDBLNK	TIND DENNIK HITEH TINGT HIME
000116		0210			OOLIL	91		LR	•	6,2	FIRST NAME ENDS AT REG6 LOC
000110	TOOL					7.		2		0,2	Tinor mind bilbo iii iibao boo
000445	4470	0004			00004					7.4/2)	MIRRIE INIMIAL AN RECT LOS
00014E		0001			00001	93		LA		7,1(2)	MIDDLE INITIAL AT REG7 LOC
000152		0240			0024E	94		LR		2,7	FIND BLANK AFTER MIDDLE NAME
000154	45HU	CZ 18			0021E	95		BAL	•	10,FINDBLNK	
000158		0001			00001	97		LA		8,1(2)	LAST NAME STARTS AT REG8 LOC
00015C						98		LR		2,8	FIND BLANK ENDING LAST NAME
00015E	45A0	C218			0021E	99		BAL	ı	10,FINDBLNK	
000162						101		LR		3,2	TERMINAL BLANK IN FULL NAME
000164						102		BCT	'R	3,0	LAST CHARACTER IN FULL NAME
000166					00001	103		LA		2,1	
00016A					000D7	104		LA		4,OUTLINE	
00016E			8000	00000			LASTNAME		;	0(1,4),0(8)	COPY LAST NAME TO OUTLINE
000174					00001	106		LA		4,1(4)	
000178					0016E	107				8,2,LASTNAME	
00017C	926B	4000		00000		108		MVI		0(4),C','	

FORMAT STREET ADDRESS: JUST COPY ST LOC OBJECT CODE ADDR1 ADDR2	REET ADDRESS STMT SOURCE STATEMENT	PAGE 6
	123 ************************************	·*********
	124 * REGISTER KEY:	*
	125 * REG10: USED TO CALL OTHER SUBROUTINES	*
	126 * REG11: USED TO RETURN TO CALLING SUBROUTINE	*
	127 ************************************	*****
0001AA 45A0 C232 00238	128 STRADDR BAL 10, CASCBLNK	
0001AE E000 COD1 0032 000D7	130 XREAD OUTLINE,50	
0001B4 E020 C0D0 0033 000D6	131 XPRNT CARRIAGE, 51	
0001BA 07FB	133 BR 11	

FORMAT CITY, STATE, AND ZIP: CITY, ST ZIP
LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT

LOC	OBJECT COD	E í	ADDR1	ADDR2	STM	r SOURC	CE STAT	TEMENT	
					135	*******	*****	*********	*******
					136	* REGIST	TER KEY	Y:	*
					137	* REC	GZ: STI	EP SIZE FOR LOOPS	*
					138	* REC	33: TE	RMINAL VALUE FOR LOOPS	*
					139	* REC	34: PO	INTER TO CARD MEMORY AREA	*
					140			INTER TO OUTLINE MEMORY AI	
								ED TO CALL OTHER SUBROUTIN	
					142	* REG	11: USI	ED TO RETURN TO CALLING SI	JBROUTINE *

0001BC	45A0 C232			00238	144	CTYSTZIP	BAL	10,CASCBLNK	
0001C0	E000 C09E	0032 (000A4		146		XREAD	CARD,50	GET CITY DATA LINE
0001C6	4140 CODO			000D6	147		LA	4,CARD+50	START AT THE END OF THE LINE
0001CA	5820 C242			00248	148		L	2,=F'-1'	
0001CE	4130 CO9D			000A3	149		LA	3,CARD-1	
	9540 4000	- (00000			FINDCITY		0(4),C''	FIND WHERE THE CITY NAME ENDS
	4720 C1D8			001DE	151		BC	B'0010',NOTBLANK	
0001DA	8642 C1CC			001DZ	152		BXH	4,2,FINDCITY	
0001DE	4120 0001			00001	154	NOTBLANK	LA	2,1	
0001E2	1834				155		LR	3,4	REASSIGN FOR NEW TERMINAL LOC
0001E4	4140 CO9E			000A4	156		LA	4,CARD	
0001E8	4150 COD1			000D7	157		LA	5,OUTLINE	
0001EC	D200 5000 4	4000 (00000	00000	158	COPYCITY	MVC	0(1,5),0(4)	COPY CITY FROM CARD TO OUTLINE
	4155 0001			00001	159		LA	5,1(5)	
0001F6	8742 C1E6			001EC	160		BXLE	4,2,COPYCITY	
0001FA	E000 C09E	0032 (000A4		162		XREAD	CARD,50	GET STATE DATA LINE
000200	926B 5000	(00000		163		MVI	0(5),C','	
000204	D201 5002 (C09E (00002	000A4	164	COPYST	MVC	2(2,5),CARD	COPY STATE INITIALS TO OUTLINE
000204	E000 C09E (0037 ¢	0004		166		YRFAD	CARD.50	GET ZIP CODE DATA LINE
	D204 5006 (00064		COPYZIP	MUC	6(5,5),CARD	COPY ZIP CODE TO OUTLINE
200210	7501 JOOU (י שנטט	VVVVU	THOU	101	001 1211	1100	0(3,37,0nnp	COLI ZII CODE IO OUILINE
000216	E020 C0D0 (0033 (00006		169		XPRNT	CARRIAGE,51	
00021C					170		BR	11	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									

FIND BLANK LOC OBJECT CODE	ADDR1 ADDR2	STMT SOURCE	E STATEMENT	PAGE 8
		173 * REGISTE	**************************************	*
00021E 9031 C05E	00064	176 * REG10): USED TO RETURN TO CALLING SU	BROUTINE *
000222 9540 2000 000226 4780 C22C 00022A 4122 0001 00022E 47F0 C21C	00000 00232 00001 00222	181 B	BC B'1000',FOUND LA 2,1(2)	FIND THE FIRST BLANK
000232 9831 C05E 000236 07FA	00064		LM 3,1,REGSAVE BR 10	POINTER RETURNED IN REG2

LOC OBJECT CODE ADDR1 ADDR2 STMT SOURCE STATEMENT

000238 9240 COD1 000D7 192 CASCBLNK MVI OUTLINE,C''

00023C D230 C0D2 C0D1 000D8 000D7 193 MVC OUTLINE+1(49),OUTLINE

000242 07FA 194 BR 10 195 END MBPROG4

000248 FFFFFFFF =F'-1'

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

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

JONES, MARY J. 123 E. MAIN STREET NEW YORK, NY 12345

BEAVER, JAMES M. 24526 CRAFT ROAD ATHENS, AL 35613

GIBBS, LEEROY J. 123 N. WASHINGTON BOULEVARD NORFOLK, VA 23501

*** EXECUTION COMPLETED ***