1PP 5655-EC6 IBM Enterprise COBOL for z/OS 6.3.0 P230302 Date 1

0PROCESS(CBL) statements:

CBL NOXREF,SSRANGE,NOSEQ,TEST,LIB

IGYOS4090-I The "LIB" option specification is no longer required. CO

0Options in effect:

NOADATA

ADV

AFP(NOVOLATILE)

QUOTE

ARCH(8)

ARITH(COMPAT)

NOAWO

NOBLOCK0

BUFSIZE(4096)

NOCICS

CODEPAGE(1140)

NOCOMPILE(S)

CONDCOMP(NOSKIPSRC)

NOCOPYLOC

NOCOPYRIGHT

NOCURRENCY

DATA(31)

DBCS

NODECK

NODEFINE

NODIAGTRUNC

DISPSIGN(COMPAT)

NODLL

NODUMP

NODYNAM

NOEXIT

NOEXPORTALL

NOFASTSRT

FLAG(I,I)

NOFLAGSTD

HGPR(PRESERVE)

NOINITCHECK

NOINITIAL

INLINE

INTDATE(ANSI)

NOINVDATA

LANGUAGE(EN)

LINECOUNT(60)

NOLIST

LP(32)

NOMAP

MAXPCF(100000)

NOMDECK

NONAME

NSYMBOL(NATIONAL)

NONUMBER

NONUMCHECK

NUMPROC(NOPFD)

OBJECT

NOOFFSET

OPTIMIZE(0)

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0 OUTDD(SYSOUT)

NOPARMCHECK

PGMNAME(COMPAT)

QUALIFY(COMPAT)

RENT

RMODE(AUTO)

NORULES

NOSERVICE

NOSEQUENCE

SOURCE(DEC)

SPACE(1)

NOSQL

SQLCCSID

NOSQLIMS

SSRANGE(NOZLEN,ABD)

NOSTGOPT

SUPPRESS

NOTERM

TEST(NOEJPD,DWARF,SOURCE,NOSEPARATE)

NOTHREAD

TRUNC(STD)

TUNE(8)

NOVBREF

VLR(STANDARD)

VSAMOPENFS(COMPAT)

NOWORD

XMLPARSE(XMLSS)

NOXREF

ZWB

1PP 5655-EC6 IBM Enterprise COBOL for z/OS 6.3.0 P230302 ASST1CY Date 1

LineID PL SL ----+\*A-1-B--+---2----+---3----+---4----+---5----+---6--

0/\* ASST1CY

000001 IDENTIFICATION DIVISION.

000002 PROGRAM-ID. ASST1CY .

000003 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000004 \*\* PROGRAM COMMENT BLOCK

000005 \*\* PROGRAM PURPOSE: SMART COLLEGE SUMMARY REPORT

000006 \*\* LOAD SUBJECT TABLE FROM SUBJECT FILE

000007 \*\* ACCUMULATE MARKS FILE INTO SUBJECT TABLE

000008 \*\* PRINT SUMMARY REPORT FROM TABLE DATA

000009 \*\* PROGRAMMER NAME: TORI THOMPSON

000010 \*\* DATE : 02 OCT 2023

000011 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000012 ENVIRONMENT DIVISION.

000013 CONFIGURATION SECTION.

000014 SOURCE-COMPUTER. IBM-390 WITH DEBUGGING MODE.

000015 \*SOURCE-COMPUTER. IBM-390.

000016 INPUT-OUTPUT SECTION.

000017 FILE-CONTROL.

000018 SELECT F01-SUBJ-FILE

000019 ASSIGN TO F01SUBJ.

000020 SELECT F02-MARK-FILE

000021 ASSIGN TO F02MARK.

000022 SELECT F03-REPT-FILE

000023 ASSIGN TO F03REPT.

000024 DATA DIVISION.

000025 FILE SECTION.

000026 FD F01-SUBJ-FILE

000027 RECORDING MODE IS F

000028 RECORD CONTAINS 80 CHARACTERS

000029 DATA RECORD IS F01-SUBJ-RECORD.

000030 01 F01-SUBJ-RECORD.

000031 05 PIC X(80).

000032 FD F02-MARK-FILE

000033 RECORDING MODE IS F

000034 RECORD CONTAINS 80 CHARACTERS

000035 DATA RECORD IS F02-MARK-RECORD.

000036 01 F02-MARK-RECORD.

000037 05 PIC X(80).

000038 FD F03-REPT-FILE

000039 RECORDING MODE IS F

000040 RECORD CONTAINS 120 CHARACTERS

000041 DATA RECORD IS F03-REPT-RECORD.

000042 01 F03-REPT-RECORD.

000043 05 PIC X(120).

000044 WORKING-STORAGE SECTION.

000045 01 W01-EOF-SUBJ PIC X VALUE SPACE.

000046 88 W01-SUBJ-AT-EOF VALUE 'Y'.

000047 01 W01-EOF-MARK PIC X VALUE SPACE.

000048 88 W01-MARK-AT-EOF VALUE 'Y'.

000049 01 W02-SUBJ-RECORD.

000050 05 W02-SUBJ-CODE PIC X(6).

000051 05 W02-SUBJ-NAME PIC X(20).

000052 01 W03-SUBJ-TABLE.

000053 05 W03-SUBJ-COUNT PIC 999 VALUE 0.

000054 05 W03-SUBJ-MAX PIC 999 VALUE 50.

000055 05 W03-SUBJ OCCURS 50 TIMES

000056 DEPENDING ON W03-SUBJ-COUNT

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LineID PL SL ----+\*A-1-B--+---2----+---3----+---4----+---5----+---6--

0 000057 ASCENDING KEY IS W03-SUBJ-CODE

000058 INDEXED BY W03-SUBJ-INDX.

000059 10 W03-SUBJ-CODE PIC X(6) VALUE SPACES.

000060 10 W03-SUBJ-NAME PIC X(20) VALUE SPACES.

000061 10 W03-A-CNT PIC 9(5) VALUE 0.

000062 10 W03-B-CNT PIC 9(5) VALUE 0.

000063 10 W03-C-CNT PIC 9(5) VALUE 0.

000064 10 W03-D-CNT PIC 9(5) VALUE 0.

000065 10 W03-F-CNT PIC 9(5) VALUE 0.

000066 \*

000067 \*\*\*\*\* RECORD FOR MARKS FILE

000068 \*

000069 01 W04-MARK-RECORD.

000070 05 W04-MARK-NAME PIC X(20).

000071 05 W04-MARK-SUBJ PIC X(6).

000072 05 PIC X.

000073 05 W04-MARK-DATE PIC X(8).

000074 05 W04-MARK-SCORE PIC 999.

000075

000076

000077 \*

000078 \*\*\*\*\* PRINT LINES

000079 \*

000080 01 W05-HEAD1 PIC X(60) VALUE

000081 ' ABC COLLEGE TESTING CENTER'.

000082 01 W05-HEAD2.

000083 05 PIC X(45) VALUE

000084 ' TEST RESULTS SUMMARY DATE:'.

000085 05 W05-HEAD2-DATE PIC B9999/99/99.

000086 05 PIC X(4) VALUE SPACES.

000087 01 W05-HEAD3.

000088 05 PIC X(21) VALUE

000089 ' SUBJECT NAME'.

000090 05 PIC X(40) VALUE

000091 ' A B C D F'.

000092 01 W06-REPT-LINE.

000093 05 W06-REPT-SUBJ PIC BX(20).

000094 05 W06-REPT-COUNT OCCURS 5 PIC BBZZ,ZZ9.

000095 \*

000096 \*\*\*\*\* GRAND TOTALS

000097 \*

000098 01 W07-SUB PIC 99 VALUE 0.

000099 01 W07-TOT-TABLE.

000100 05 W07-TOT-COUNT OCCURS 5 PIC 9(5) VALUE 0.

000101

000102

000103

000104 PROCEDURE DIVISION.

000105 D DISPLAY 'ASSN1V3 MAIN STARTING'

000106 PERFORM A100-INIT

000107 PERFORM A200-PROCESS UNTIL W01-MARK-AT-EOF

000108 PERFORM A300-FINAL

000109 D DISPLAY 'MAIN STOPPING'

000110 STOP RUN

000111 .

000112

000113 A100-INIT.

1PP 5655-EC6 IBM Enterprise COBOL for z/OS 6.3.0 P230302 ASST1CY Date 1

LineID PL SL ----+\*A-1-B--+---2----+---3----+---4----+---5----+---6--

0 000114 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000115 \*

000116 \* INITIALIZE THE PROGRAM

000117 \*

000118 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000119 D DISPLAY 'A100-INIT RUNNING'

000120 OPEN INPUT F01-SUBJ-FILE F02-MARK-FILE

000121 OPEN OUTPUT F03-REPT-FILE

000122 MOVE 'N' TO W01-EOF-SUBJ W01-EOF-MARK

000123 PERFORM A110-LOAD-SUBJ

000124 PERFORM B100-READ-MARK

000125 .

000126

000127 A110-LOAD-SUBJ.

000128 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000129 \*

000130 \* READ SUBJECT FILE TO LOAD TABLE

000131 \*

000132 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000133 READ F01-SUBJ-FILE INTO W02-SUBJ-RECORD

000134 1 AT END SET W01-SUBJ-AT-EOF TO TRUE

000135 END-READ

000136 PERFORM UNTIL W01-SUBJ-AT-EOF

000137 1 IF W03-SUBJ-COUNT < W03-SUBJ-MAX

000138 2 ADD 1 TO W03-SUBJ-COUNT

000139 2 SET W03-SUBJ-INDX TO W03-SUBJ-COUNT

000140 2 MOVE W02-SUBJ-CODE TO W03-SUBJ-CODE(W03-SUBJ

000141 2 MOVE W02-SUBJ-NAME TO W03-SUBJ-NAME(W03-SUBJ

000142 1 END-IF

000143 1 READ F01-SUBJ-FILE INTO W02-SUBJ-RECORD

000144 2 AT END SET W01-SUBJ-AT-EOF TO TRUE

000145 1 END-READ

000146 END-PERFORM

000147 .

000148 A200-PROCESS.

000149 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000150 \*

000151 \* PROCESS ONE MARK RECORD

000152 \*

000153 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000154 D DISPLAY 'A200-PROCESS RUNNING'

000155 D DISPLAY "INPUT RECORD " W04-MARK-RECORD

000156

000157

000158 SEARCH ALL W03-SUBJ

000159 1 AT END MOVE 'INVALID CODE' TO W04-MARK-NAME

000160 WHEN W03-SUBJ-CODE(W03-SUBJ-INDX) = W04-MARK-S

000161 1 EVALUATE TRUE

000162 1 WHEN (W04-MARK-SCORE >= 80 AND W04-MARK-SCO

000163 2 ADD 1 TO W03-A-CNT(W03-SUBJ-INDX)

000164 1 WHEN (W04-MARK-SCORE >= 70 AND W04-MARK-SCO

000165 2 ADD 1 TO W03-B-CNT(W03-SUBJ-INDX)

000166 1 WHEN (W04-MARK-SCORE >= 60 AND W04-MARK-SCO

000167 2 ADD 1 TO W03-C-CNT(W03-SUBJ-INDX)

000168 1 WHEN (W04-MARK-SCORE >= 50 AND W04-MARK-SCO

000169 2 ADD 1 TO W03-D-CNT(W03-SUBJ-INDX)

000170 1 WHEN OTHER

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LineID PL SL ----+\*A-1-B--+---2----+---3----+---4----+---5----+---6--

0 000171 2 ADD 1 TO W03-F-CNT(W03-SUBJ-INDX)

000172 1 END-EVALUATE

000173 END-SEARCH

000174

000175 PERFORM B100-READ-MARK

000176 .

000177

000178 A300-FINAL.

000179 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000180 \*

000181 \* CLOSE UP THE PROGRAM

000182 \*

000183 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000184 D DISPLAY 'A300-FINAL RUNNING'

000185 WRITE F03-REPT-RECORD FROM W05-HEAD1

000186 AFTER ADVANCING PAGE

000187 MOVE FUNCTION CURRENT-DATE (1:8) TO

000188 W05-HEAD2-DATE

000189 WRITE F03-REPT-RECORD FROM W05-HEAD2

000190 AFTER ADVANCING 1 LINE

000191 WRITE F03-REPT-RECORD FROM W05-HEAD3

000192 AFTER ADVANCING 2 LINE

000193 MOVE SPACES TO F03-REPT-RECORD

000194 WRITE F03-REPT-RECORD

000195 AFTER ADVANCING 1 LINE

000196

000197 PERFORM VARYING W03-SUBJ-INDX FROM 1 BY 1

000198 UNTIL W03-SUBJ-INDX > W03-SUBJ-COUNT

000199 1 IF W03-A-CNT(W03-SUBJ-INDX) > 0

000200 1 OR W03-B-CNT(W03-SUBJ-INDX) > 0

000201 1 OR W03-C-CNT(W03-SUBJ-INDX) > 0

000202 1 OR W03-D-CNT(W03-SUBJ-INDX) > 0

000203 1 OR W03-F-CNT(W03-SUBJ-INDX) > 0

000204 2 MOVE W03-SUBJ-NAME(W03-SUBJ-INDX) TO W06-REPT-

000205 2 MOVE W03-A-CNT(W03-SUBJ-INDX) TO W06-REPT-COUN

000206 2 ADD W03-A-CNT(W03-SUBJ-INDX) TO W07-TOT-COUNT(

000207 2 MOVE W03-B-CNT(W03-SUBJ-INDX) TO W06-REPT-COUN

000208 2 ADD W03-B-CNT(W03-SUBJ-INDX) TO W07-TOT-COUNT(

000209 2 MOVE W03-C-CNT(W03-SUBJ-INDX) TO W06-REPT-COUN

000210 2 ADD W03-C-CNT(W03-SUBJ-INDX) TO W07-TOT-COUNT(

000211 2 MOVE W03-D-CNT(W03-SUBJ-INDX) TO W06-REPT-COUN

000212 2 ADD W03-D-CNT(W03-SUBJ-INDX) TO W07-TOT-COUNT(

000213 2 MOVE W03-F-CNT(W03-SUBJ-INDX) TO W06-REPT-COUN

000214 2 ADD W03-F-CNT(W03-SUBJ-INDX) TO W07-TOT-COUNT(

000215 2 WRITE F03-REPT-RECORD FROM W06-REPT-LINE

000216 2 AFTER ADVANCING 1 LINE

000217 1 END-IF

000218 END-PERFORM

000219

000220 \*\*\* PRINT TOTALS

000221 PERFORM VARYING W07-SUB FROM 1 BY 1

000222 UNTIL W07-SUB > 5

000223 1 MOVE W07-TOT-COUNT(W07-SUB)

000224 1 TO W06-REPT-COUNT(W07-SUB)

000225 END-PERFORM

000226 MOVE 'TOTAL' TO W06-REPT-SUBJ

000227 WRITE F03-REPT-RECORD FROM W06-REPT-LINE

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LineID PL SL ----+\*A-1-B--+---2----+---3----+---4----+---5----+---6--

0 000228 AFTER ADVANCING 2 LINE

000229

000230

000231 CLOSE F01-SUBJ-FILE F02-MARK-FILE F03-REPT-FILE

000232 .

000233 B100-READ-MARK.

000234 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000235 \*

000236 \* READ ONE RECORD

000237 \*

000238 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

000239 READ F02-MARK-FILE INTO W04-MARK-RECORD

000240 1 AT END SET W01-MARK-AT-EOF TO TRUE

000241 1 MOVE SPACES TO W04-MARK-RECORD

000242 END-READ

000243 .

\*/ ASST1CY

-Messages Total Informational Warning Error Severe Terminating

0Printed: 1 1

-\* Statistics for COBOL program ASST1CY:

\* Source records = 243

\* Data Division statements = 36

\* Procedure Division statements = 62

\* Generated COBOL statements = 0

\* Program complexity factor = 67

0End of compilation 1, program ASST1CY, highest severity 0.

0Return code 0