

CONTROL BREAK 3

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IDENTIFICATION DIVISION.
PROGRAM-ID. CB3.
AUTHOR. 62160246.

ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
    SELECT INPUT1-FILE ASSIGN TO "input3.txt"
    ORGANIZATION IS LINE SEQUENTIAL.

DATA DIVISION.
FILE SECTION.
FD  INPUT1-FILE.
01  INPUT1-BUFFER.
    88  END-OF-INPUT1-FILE          VALUE HIGH-VALUES.
05  COL-A          PIC X(2).
    05  COL-B          PIC X(2).
    05  COL-C          PIC X(2).
    05  COL-COUNT      PIC 9(3).

WORKING-STORAGE SECTION.
01  TOTAL          PIC 9(4)  VALUE ZEROS.
01  COL-A-TOTAL     PIC 9(4).
01  COL-A-PROCESSING PIC X(2).
01  COL-B-TOTAL     PIC 9(4).
01  COL-B-PROCESSING PIC X(2).
01  COL-C-TOTAL     PIC 9(4).
01  COL-C-PROCESSING PIC X(2).
01  RPT-HEADER.
    05  FILLER          PIC X(4)  VALUE "  A  ".
    05  FILLER          PIC X(4)  VALUE SPACES.
    05  FILLER          PIC X(4)  VALUE "  B  ".
    05  FILLER          PIC X(4)  VALUE SPACES.
    05  FILLER          PIC X(4)  VALUE "  C  ".
    05  FILLER          PIC X(4)  VALUE SPACES.
    05  FILLER          PIC X(7)  VALUE "  TOTAL".
01  RPT-ROW.
    05  RPT-COL-A       PIC BBX(2).
    05  FILLER          PIC X(5)  VALUE SPACES.
    05  RPT-COL-B       PIC BBX(2).
    05  FILLER          PIC X(5)  VALUE SPACES.
    05  RPT-COL-C       PIC BBX(2).
    05  FILLER          PIC X(5)  VALUE SPACES.
    05  RPT-COL-TOTAL   PIC ZZ9.
01  RPT-A-TOTAL-ROW.
    05  FILLER          PIC X(7)  VALUE "      ".
    05  FILLER          PIC X(11) VALUE "  A TOTAL: ".
    05  RPT-A-TOTAL     PIC ZZ9.
01  RPT-B-TOTAL-ROW.
    05  FILLER          PIC X(7)  VALUE "      ".
    05  FILLER          PIC X(11) VALUE "  B TOTAL: ".
    05  RPT-B-TOTAL     PIC ZZ9.
01  RPT-FOOTER.
    05  FILLER          PIC X(9)  VALUE "  TOTAL:".
    05  RPT-TOTAL       PIC ZZ9.

PROCEDURE DIVISION.
BEGIN.
    OPEN INPUT INPUT1-FILE
    DISPLAY RPT-HEADER
    PERFORM READ-LINE
    PERFORM PROCEDURE-COL-A UNTIL END-OF-INPUT1-FILE
    MOVE TOTAL TO RPT-TOTAL
    DISPLAY RPT-FOOTER
    CLOSE INPUT1-FILE
    GOBACK
    .

PROCEDURE-COL-A.
    MOVE COL-A TO COL-A-PROCESSING
    MOVE COL-A-PROCESSING TO RPT-COL-A
    MOVE ZEROS TO COL-A-TOTAL
    PERFORM PROCEDURE-COL-B UNTIL COL-A NOT = COL-A-PROCESSING
    MOVE COL-A-TOTAL TO RPT-A-TOTAL
    DISPLAY RPT-A-TOTAL-ROW
    .

PROCEDURE-COL-B.
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input3.txt

1	A181C1001
2	A181C1001
3	A181C1002
4	A181C2001
5	A181C2001
6	A181C3001
7	A181C3001
8	A181C3002
9	A181C3001
10	A181C4001
11	A181C4001
12	A182C1001
13	A182C1001
14	A182C1002
15	A182C2001
16	A182C3001

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PROCEDURE-COL-B.
    MOVE COL-B TO COL-B-PROCESSING
    MOVE COL-B-PROCESSING TO RPT-COL-B
    MOVE ZEROS TO COL-B-TOTAL
    PERFORM PROCEDURE-COL-C UNTIL COL-B NOT = COL-B-PROCESSING
    OR COL-A NOT = COL-A-PROCESSING
    MOVE COL-B-TOTAL TO RPT-B-TOTAL
    DISPLAY RPT-B-TOTAL-ROW
    .

PROCEDURE-COL-C.
    MOVE COL-C TO COL-C-PROCESSING
    MOVE COL-C-PROCESSING TO RPT-COL-C
    MOVE ZEROS TO COL-C-TOTAL
    PERFORM PROCEDURE-LINE UNTIL COL-C NOT = COL-C-PROCESSING
    OR COL-B NOT = COL-B-PROCESSING
    OR COL-A NOT = COL-A-PROCESSING
    MOVE COL-C-TOTAL TO RPT-COL-TOTAL
    DISPLAY RPT-ROW
    MOVE SPACES TO RPT-COL-A, RPT-COL-B, RPT-COL-C
    .

PROCEDURE-LINE.
    ADD COL-COUNT TO TOTAL, COL-A-TOTAL, COL-B-TOTAL, COL-C-TOTAL
    PERFORM READ-LINE
    .

READ-LINE.
    READ INPUT1-FILE
    AT END
        SET END-OF-INPUT1-FILE TO TRUE
    END-READ
    .
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