

IDENTIFICATION DIVISION.

PROGRAM-ID. LOAD01N.

DATE-WRITTEN. JUNE, 2025.

DATE-COMPILED.

REMARKS. SORT RECORDS FROM TAPE ON ASCENDING KEY FIELD,
 LOAD INTO VSAM KSDS CLUSTER,
 VERIFY INPUT IS IN PROPER KEY SEQUENCE, NO DUPLICATES,
 REPORT INCLUDES RECORDS LOADED AND ERRORS ENCOUNTERED.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT STUDENT-LOAD-FILE

ASSIGN TO STMASTI.

SELECT STUDENT-MASTER-FILE

ASSIGN TO STMASTO
 ORGANIZATION IS INDEXED
 ACCESS IS SEQUENTIAL
 RECORD KEY IS SMR-STUDENT-NUMBER
 FILE STATUS IS STMASTO-STATUS.

SELECT REPORT-FILE

ASSIGN TO S-REPORT.

SELECT SORT-WORK-FILE

ASSIGN TO UT-S-SORTWK.

DATA DIVISION.

FILE SECTION.

FD STUDENT-LOAD-FILE

LABEL RECORDS STANDARD
 RECORD CONTAINS 150 CHARACTERS
 BLOCK CONTAINS 10 RECORDS
 DATA RECORD IS STUDENT-LOAD-RECORD.

01 STUDENT-LOAD-RECORD PIC X(150).

FD STUDENT-MASTER-FILE

RECORD CONTAINS 150 CHARACTERS
 DATA RECORD IS STUDENT-MASTER-RECORD.

01 STUDENT-MASTER-RECORD.

02 SMR-STUDENT-NUMBER PIC X(09).
 02 FILLER PIC X(141).

FD REPORT-FILE

IDENTIFICATION DIVISION.

PROGRAM-ID. LOAD01V.

DATE-WRITTEN. JUNE, 2025.

DATE-COMPILED.

REMARKS. SORT RECORDS FROM TAPE ON ASCENDING KEY FIELD,
 LOAD INTO VSAM KSDS CLUSTER,
 VERIFY INPUT IS IN PROPER KEY SEQUENCE, NO DUPLICATES,
 REPORT INCLUDES RECORDS LOADED AND ERRORS ENCOUNTERED.

ENVIRONMENT DIVISION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT STUDENT-LOAD-FILE

ASSIGN TO UT-S-STMASTI.

SELECT REPORT-FILE

ASSIGN TO UR-S-REPORT.

SELECT SORT-WORK-FILE

ASSIGN TO UT-S-SORTWK.

DATA DIVISION.

FILE SECTION.

FD STUDENT-LOAD-FILE

LABEL RECORDS STANDARD
 RECORD CONTAINS 150 CHARACTERS
 BLOCK CONTAINS 10 RECORDS
 DATA RECORD IS STUDENT-LOAD-RECORD.

01 STUDENT-LOAD-RECORD PIC X(150).

FD REPORT-FILE

LABEL RECORDS STANDARD				LABEL RECORDS OMITTED			
REPORT IS LOAD-REPORT.				REPORT IS LOAD-REPORT.			
SD	SORT-WORK-FILE DATA RECORD IS SORT-WORK-RECORD.			SD	SORT-WORK-FILE DATA RECORD IS SORT-WORK-RECORD.		
01	SORT-WORK-RECORD. 02 SWR-STUDENT-NUMBER PIC X(09). 02 FILLER PIC X(141).			01	SORT-WORK-RECORD. 02 SWR-STUDENT-NUMBER PIC X(09). 02 FILLER PIC X(141).		
WORKING-STORAGE SECTION.				WORKING-STORAGE SECTION.			
01	STUDENT-LOAD-FILE-EOF-SW	PIC X	VALUE 'N'.	01	STUDENT-LOAD-FILE-EOF-SW	PIC X	VALUE 'N'.
88	STUDENT-LOAD-FILE-EOF		VALUE 'Y'.	88	STUDENT-LOAD-FILE-EOF		VALUE 'Y'.
01	KEY-SEQUENCE-ERROR-SW	PIC 9(2)	VALUE 00.	01	KEY-SEQUENCE-ERROR-SW	PIC 9(2)	VALUE 00.
88	NO-SEQUENCE-ERROR		VALUE 00.	88	NO-SEQUENCE-ERROR		VALUE 00.
88	OUT-OF-SEQUENCE		VALUE 01.	88	OUT-OF-SEQUENCE		VALUE 01.
88	DUPLICATE-KEY		VALUE 02.	88	DUPLICATE-KEY		VALUE 02.
01	STMASTO-STATUS	PIC X(02).					
01	WS-STATUS-MESSAGE	PIC X(40).		01	WS-STATUS-MESSAGE	PIC X(40).	
01	Y2K-GETD-PARAMETERS.			01	Y2K-GETD-PARAMETERS.		
02	Y2K-GETDP-DATE-G	PIC 9(8).		02	Y2K-GETDP-DATE-G	PIC 9(8).	
02	Y2K-GETDP-DATE-J	PIC 9(7).		02	Y2K-GETDP-DATE-J	PIC 9(7).	
02	Y2K-GETDP-ANUM	PIC S9(7).		02	Y2K-GETDP-ANUM	PIC S9(7).	
02	Y2K-GETDP-CLOCK	PIC 9(8).		02	Y2K-GETDP-CLOCK	PIC 9(8).	
02	FILLER	REDEFINES Y2K-GETDP-CLOCK.		02	FILLER	REDEFINES Y2K-GETDP-CLOCK.	
	03 Y2K-GETDP-CLOCK-HH	PIC 9(2).			03 Y2K-GETDP-CLOCK-HH	PIC 9(2).	
	03 Y2K-GETDP-CLOCK-MM	PIC 9(2).			03 Y2K-GETDP-CLOCK-MM	PIC 9(2).	
	03 Y2K-GETDP-CLOCK-SS	PIC 9(2).			03 Y2K-GETDP-CLOCK-SS	PIC 9(2).	
	03 Y2K-GETDP-CLOCK-T	PIC 9(1).			03 Y2K-GETDP-CLOCK-T	PIC 9(1).	
	03 Y2K-GETDP-CLOCK-H	PIC 9(1).			03 Y2K-GETDP-CLOCK-H	PIC 9(1).	
02	Y2K-GETDP-CLOCK12	PIC X(11).		02	Y2K-GETDP-CLOCK12	PIC X(11).	
01	Y2K-DFMT-PARAMETERS.			01	Y2K-DFMT-PARAMETERS.		
02	Y2K-DFMTP-DATEIN	PIC X(8).		02	Y2K-DFMTP-DATEIN	PIC X(8).	
02	Y2K-DFMTP-MAJOR	PIC X(1).		02	Y2K-DFMTP-MAJOR	PIC X(1).	
02	Y2K-DFMTP-MINOR	PIC X(1).		02	Y2K-DFMTP-MINOR	PIC X(1).	
02	Y2K-DFMTP-RETURN-CODE	PIC 9(1).		02	Y2K-DFMTP-RETURN-CODE	PIC 9(1).	
02	Y2K-DFMTP-OUTPUT-SIZE	PIC S9(2).		02	Y2K-DFMTP-OUTPUT-SIZE	PIC S9(2).	
02	Y2K-DFMTP-OUTPUT	PIC X(29).		02	Y2K-DFMTP-OUTPUT	PIC X(29).	
01	INPUT-COUNT	PIC 9(5)	VALUE 0.	01	INPUT-COUNT	PIC 9(5)	VALUE 0.
01	ERROR-COUNT	PIC 9(5)	VALUE 0.	01	ERROR-COUNT	PIC 9(5)	VALUE 0.
01	OUTPUT-COUNT	PIC 9(5)	VALUE 0.	01	OUTPUT-COUNT	PIC 9(5)	VALUE 0.
01	KEY-SEQUENCE-TEST.			01	KEY-SEQUENCE-TEST.		

02 PRIOR-KEY-VALUE PIC X(09) VALUE LOW-VALUES.

COPY 'STMASTER'.

01 WS-SORT-NAME.

02 WSSN-CH OCCURS 30 TIMES
INDEXED BY WSSN-IX
PIC X.

01 WS-SOURCE.

02 WSS-CH OCCURS 11 TIMES
INDEXED BY WSS-IX
PIC X.

REPORT SECTION.

RD LOAD-REPORT

PAGE LIMIT IS 66 LINES
HEADING 2
FIRST DETAIL 5
LAST DETAIL 58.

01 PAGE-HEAD-GROUP TYPE PAGE HEADING.

02 LINE 2.

03 COLUMN 01 PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.

03 COLUMN 15 PIC X(03) VALUE '(N)'.

03 COLUMN 25 PIC X(07) VALUE 'Student'.

03 COLUMN 35 PIC X(06) VALUE 'Master'.

03 COLUMN 44 PIC X(04) VALUE 'Load'.

03 COLUMN 51 PIC X(06) VALUE 'Report'.

03 COLUMN 71 PIC X(04) VALUE 'Page'.

03 COLUMN 76 PIC Z,ZZ9 SOURCE PAGE-COUNTER.

02 LINE 3.

03 COLUMN 01 PIC X(11) SOURCE Y2K-GETDP-CLOCK12.

01 LOAD-DETAIL TYPE DETAIL.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(09) SOURCE SI-STUDENT-NUMBER.

03 COLUMN 40 PIC X(40) SOURCE WS-STATUS-MESSAGE.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(11) SOURCE SI-FIRST-NAME.

03 COLUMN 16 PIC X(01) SOURCE SI-MINITIAL.

03 COLUMN 18 PIC X(10) SOURCE SI-LAST-NAME.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(35) SOURCE SI-STREET.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(20) SOURCE SI-CITY.

03 COLUMN 25 PIC X(02) SOURCE SI-STATE.

02 PRIOR-KEY-VALUE

PIC X(09) VALUE LOW-VALUES.

01 VSIO-PARAMETER-VALUES

COPY VSAMIO.

01 KSDSF01

COPY VSAMIOFB.

01 STUDENT-MASTER-INFORMATION

COPY 'STMASTER'.

01 WS-SORT-NAME.

02 WSSN-CH OCCURS 30 TIMES
INDEXED BY WSSN-IX
PIC X.

01 WS-SOURCE.

02 WSS-CH OCCURS 11 TIMES
INDEXED BY WSS-IX
PIC X.

REPORT SECTION.

RD LOAD-REPORT

PAGE LIMIT IS 66 LINES
HEADING 2
FIRST DETAIL 5
LAST DETAIL 58.

01 PAGE-HEAD-GROUP TYPE PAGE HEADING.

02 LINE 2.

03 COLUMN 01 PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.

03 COLUMN 15 PIC X(03) VALUE '(V)'.

03 COLUMN 25 PIC X(07) VALUE 'Student'.

03 COLUMN 35 PIC X(06) VALUE 'Master'.

03 COLUMN 44 PIC X(04) VALUE 'Load'.

03 COLUMN 51 PIC X(06) VALUE 'Report'.

03 COLUMN 71 PIC X(04) VALUE 'Page'.

03 COLUMN 76 PIC Z,ZZ9 SOURCE PAGE-COUNTER.

02 LINE 3.

03 COLUMN 01 PIC X(11) SOURCE Y2K-GETDP-CLOCK12.

01 LOAD-DETAIL TYPE DETAIL.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(09) SOURCE SI-STUDENT-NUMBER.

03 COLUMN 40 PIC X(40) SOURCE WS-STATUS-MESSAGE.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(11) SOURCE SI-FIRST-NAME.

03 COLUMN 16 PIC X(01) SOURCE SI-MINITIAL.

03 COLUMN 18 PIC X(10) SOURCE SI-LAST-NAME.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(35) SOURCE SI-STREET.

02 LINE PLUS 1.

03 COLUMN 04 PIC X(20) SOURCE SI-CITY.

03 COLUMN 25 PIC X(02) SOURCE SI-STATE.

load01n - load01v

```
      03 COLUMN 28 PIC X(05) SOURCE SI-ZIPCODE.
02 LINE PLUS 1.
      03 COLUMN 04 PIC X(08) SOURCE SI-BIRTH-DATE.
      03 COLUMN 13 PIC X(08) SOURCE SI-ENROLL-DATE.
      03 COLUMN 22 PIC X(08) SOURCE SI-CONTACT-DATE.
      03 COLUMN 31 PIC X(01) SOURCE SI-GENDER.
02 LINE PLUS 1.
      03 COLUMN 04 PIC X(30) SOURCE SI-SORT-NAME.
02 LINE PLUS 2.

01 LOAD-SUMMARY TYPE REPORT FOOTING.
02 LINE 2.
      03 COLUMN 01 PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.
      03 COLUMN 15 PIC X(03) VALUE '(N)'.
      03 COLUMN 25 PIC X(07) VALUE 'Student'.
      03 COLUMN 35 PIC X(06) VALUE 'Master'.
      03 COLUMN 44 PIC X(04) VALUE 'Load'.
      03 COLUMN 51 PIC X(06) VALUE 'Report'.
      03 COLUMN 71 PIC X(04) VALUE 'Page'.
      03 COLUMN 76 PIC Z,ZZ9 SOURCE PAGE-COUNTER.
02 LINE 3.
      03 COLUMN 01 PIC X(11) SOURCE Y2K-GETDP-CLOCK12.
02 LINE 6.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE INPUT-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records read from STMASTI'.
02 LINE PLUS 2.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE ERROR-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records omitted (with errors)'.
02 LINE PLUS 2.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE OUTPUT-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records written to STMASTO'.
```

PROCEDURE DIVISION.

0000-MAIN SECTION.

0000-CREATE-STUDENT-FILE.

```
CALL 'Y2KGETD' USING Y2K-GETD-PARAMETERS.
MOVE Y2K-GETDP-DATE-G TO Y2K-DFMTP-DATEIN.
MOVE '1' TO Y2K-DFMTP-MAJOR.
MOVE '3' TO Y2K-DFMTP-MINOR.
CALL 'Y2KDFMT' USING Y2K-DFMT-PARAMETERS.
```

```
SORT SORT-WORK-FILE
  ASCENDING KEY SWR-STUDENT-NUMBER
```

```
      03 COLUMN 28 PIC X(05) SOURCE SI-ZIPCODE.
02 LINE PLUS 1.
      03 COLUMN 04 PIC X(08) SOURCE SI-BIRTH-DATE.
      03 COLUMN 13 PIC X(08) SOURCE SI-ENROLL-DATE.
      03 COLUMN 22 PIC X(08) SOURCE SI-CONTACT-DATE.
      03 COLUMN 31 PIC X(01) SOURCE SI-GENDER.
02 LINE PLUS 1.
      03 COLUMN 04 PIC X(30) SOURCE SI-SORT-NAME.
02 LINE PLUS 2.

01 LOAD-SUMMARY TYPE REPORT FOOTING.
02 LINE 2.
      03 COLUMN 01 PIC X(10) SOURCE Y2K-DFMTP-OUTPUT.
      03 COLUMN 15 PIC X(03) VALUE '(V)'.
      03 COLUMN 25 PIC X(07) VALUE 'Student'.
      03 COLUMN 35 PIC X(06) VALUE 'Master'.
      03 COLUMN 44 PIC X(04) VALUE 'Load'.
      03 COLUMN 51 PIC X(06) VALUE 'Report'.
      03 COLUMN 71 PIC X(04) VALUE 'Page'.
      03 COLUMN 76 PIC Z,ZZ9 SOURCE PAGE-COUNTER.
02 LINE 3.
      03 COLUMN 01 PIC X(11) SOURCE Y2K-GETDP-CLOCK12.
02 LINE 6.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE INPUT-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records read from STMASTI'.
02 LINE PLUS 2.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE ERROR-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records omitted (with errors)'.
02 LINE PLUS 2.
      03 COLUMN 13 PIC ZZ,ZZ9 SOURCE OUTPUT-COUNT.
      03 COLUMN 20 PIC X(30) VALUE
        'Records written to STMASTO'.
```

PROCEDURE DIVISION.

0000-MAIN SECTION.

0000-CREATE-STUDENT-FILE.

```
CALL 'Y2KGETD' USING Y2K-GETD-PARAMETERS.
MOVE Y2K-GETDP-DATE-G TO Y2K-DFMTP-DATEIN.
MOVE '1' TO Y2K-DFMTP-MAJOR.
MOVE '3' TO Y2K-DFMTP-MINOR.
CALL 'Y2KDFMT' USING Y2K-DFMT-PARAMETERS.
```

```
SORT SORT-WORK-FILE
  ASCENDING KEY SWR-STUDENT-NUMBER
```

load01n - load01v

USING STUDENT-LOAD-FILE
OUTPUT PROCEDURE IS 1000-PROCESS-SORTED-RECORDS.

GOBACK.

1000-PROCESS-SORTED-RECORDS SECTION.

OPEN OUTPUT STUDENT-MASTER-FILE,
REPORT-FILE.

INITIATE LOAD-REPORT.

PERFORM 2100-RETURN-SORTED-RECORD

UNTIL STUDENT-LOAD-FILE-EOF.

TERMINATE LOAD-REPORT.

CLOSE STUDENT-MASTER-FILE,
REPORT-FILE.

2000-PERFORMED-ROUTINES SECTION.

USING STUDENT-LOAD-FILE
OUTPUT PROCEDURE IS 1000-PROCESS-SORTED-RECORDS.

GOBACK.

1000-PROCESS-SORTED-RECORDS SECTION.

MOVE 'STMASTO' TO VSIO-DDNAME.
MOVE VSIO-KSDS TO VSIO-ORGANIZATION.
MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS.
MOVE VSIO-OUTPUT TO VSIO-MODE.
MOVE +150 TO VSIO-RECORD-LENGTH.
MOVE +0 TO VSIO-KEY-POSITION.
MOVE +9 TO VSIO-KEY-LENGTH.
MOVE VSIO-OPEN TO VSIO-COMMAND.
CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
STUDENT-MASTER-INFORMATION.

IF NOT VSIO-SUCCESS
DISPLAY 'VSAMIO ERROR OCCURRED DURING '
VSIO-COMMAND
EXHIBIT NAMED VSIO-RETURN-CODE,
EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
VSIO-VSAM-FUNCTION-CODE,
VSIO-VSAM-FEEDBACK-CODE

STOP RUN.

OPEN OUTPUT REPORT-FILE.
INITIATE LOAD-REPORT.

PERFORM 2100-RETURN-SORTED-RECORD

THRU 2199-EXIT

UNTIL STUDENT-LOAD-FILE-EOF.

TERMINATE LOAD-REPORT.

MOVE VSIO-CLOSE TO VSIO-COMMAND.
CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
STUDENT-MASTER-INFORMATION.

IF NOT VSIO-SUCCESS
DISPLAY 'VSAMIO ERROR OCCURRED DURING '
VSIO-COMMAND
EXHIBIT NAMED VSIO-RETURN-CODE,
EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
VSIO-VSAM-FUNCTION-CODE,
VSIO-VSAM-FEEDBACK-CODE.

CLOSE REPORT-FILE.

2000-PERFORMED-ROUTINES SECTION.

2100-RETURN-SORTED-RECORD.

RETURN SORT-WORK-FILE INTO SI-MASTER-RECORD
 AT END MOVE 'Y' TO STUDENT-LOAD-FILE-EOF-SW.

IF NOT STUDENT-LOAD-FILE-EOF

PERFORM 2200-PROCESS-STUDENT-DATA.

2200-PROCESS-STUDENT-DATA.

ADD 1 TO INPUT-COUNT.

PERFORM 2300-KEY-SEQUENCE-TESTS.

IF OUT-OF-SEQUENCE

MOVE 'Record key is out of sequence'
 TO WS-STATUS-MESSAGE
 ADD 1 TO ERROR-COUNT.

IF DUPLICATE-KEY

MOVE 'Record key duplicates previous key'
 TO WS-STATUS-MESSAGE
 ADD 1 TO ERROR-COUNT.

IF NO-SEQUENCE-ERROR

PERFORM 2400-ADD-STUDENT-MASTER-RECORD.

GENERATE LOAD-DETAIL.

2300-KEY-SEQUENCE-TESTS.

MOVE 0 TO KEY-SEQUENCE-ERROR-SW.

IF SI-STUDENT-NUMBER NOT > PRIOR-KEY-VALUE
 ADD 01 TO KEY-SEQUENCE-ERROR-SW.

IF SI-STUDENT-NUMBER = PRIOR-KEY-VALUE
 ADD 01 TO KEY-SEQUENCE-ERROR-SW.

MOVE SI-STUDENT-NUMBER TO PRIOR-KEY-VALUE.

2100-RETURN-SORTED-RECORD.

RETURN SORT-WORK-FILE INTO STUDENT-MASTER-INFORMATION
 AT END MOVE 'Y' TO STUDENT-LOAD-FILE-EOF-SW.

IF NOT STUDENT-LOAD-FILE-EOF

PERFORM 2200-PROCESS-STUDENT-DATA
 THRU 2299-EXIT.

2199-EXIT.
 EXIT.

2200-PROCESS-STUDENT-DATA.

ADD 1 TO INPUT-COUNT.

PERFORM 2300-KEY-SEQUENCE-TESTS.

IF OUT-OF-SEQUENCE

MOVE 'Record key is out of sequence'
 TO WS-STATUS-MESSAGE
 ADD 1 TO ERROR-COUNT.

IF DUPLICATE-KEY

MOVE 'Record key duplicates previous key'
 TO WS-STATUS-MESSAGE
 ADD 1 TO ERROR-COUNT.

IF NO-SEQUENCE-ERROR

PERFORM 2400-ADD-STUDENT-MASTER-RECORD
 THRU 2499-EXIT.

GENERATE LOAD-DETAIL.

2299-EXIT.
 EXIT.

2300-KEY-SEQUENCE-TESTS.

MOVE 0 TO KEY-SEQUENCE-ERROR-SW.

IF SI-STUDENT-NUMBER NOT > PRIOR-KEY-VALUE
 ADD 01 TO KEY-SEQUENCE-ERROR-SW.

IF SI-STUDENT-NUMBER = PRIOR-KEY-VALUE
 ADD 01 TO KEY-SEQUENCE-ERROR-SW.

MOVE SI-STUDENT-NUMBER TO PRIOR-KEY-VALUE.

2400-ADD-STUDENT-MASTER-RECORD.

```

PERFORM 2500-BUILD-SORT-NAME.

WRITE STUDENT-MASTER-RECORD FROM SI-MASTER-RECORD
  INVALID KEY
  MOVE 'Invalid key on record write'
    TO WS-STATUS-MESSAGE
  ADD 1 TO ERROR-COUNT.

```

```

IF STMASTO-STATUS = '00'
  ADD 1 TO OUTPUT-COUNT.
  MOVE 'Record added successfully'

```

```


```

```

  TO WS-STATUS-MESSAGE.

```

```


```

2500-BUILD-SORT-NAME.

```

MOVE SPACES TO WS-SORT-NAME.
MOVE SI-LAST-NAME TO WS-SOURCE.
SET WSS-IX, WSSN-IX TO 1.
PERFORM 2600-MOVE-CHARACTER
  UNTIL WSS-CH (WSS-IX) = SPACE
    OR WSS-IX > 10.
MOVE SI-FIRST-NAME TO WS-SOURCE.
SET WSS-IX TO 1.
PERFORM 2600-MOVE-CHARACTER
  UNTIL WSS-CH (WSS-IX) = SPACE
    OR WSS-IX > 11.
MOVE SI-MINIMAL TO WSSN-CH (WSSN-IX).
MOVE WS-SORT-NAME TO SI-SORT-NAME.

```

```


```

2600-MOVE-CHARACTER.

```

MOVE WSS-CH (WSS-IX) TO WSSN-CH (WSSN-IX).
SET WSS-IX, WSSN-IX UP BY 1.

```

2400-ADD-STUDENT-MASTER-RECORD.

```

PERFORM 2500-BUILD-SORT-NAME
  THRU 2599-EXIT.
MOVE VSIO-WRITE TO VSIO-COMMAND.
CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
  STUDENT-MASTER-INFORMATION.

```

```

IF VSIO-SUCCESS
  ADD 1 TO OUTPUT-COUNT
  MOVE 'Record added successfully'

```

```

    TO WS-STATUS-MESSAGE
  ELSE
    ADD 1 TO ERROR-COUNT
    MOVE 'Invalid key on record write'

```

```

    TO WS-STATUS-MESSAGE.

```

```

2499-EXIT.
EXIT.

```

2500-BUILD-SORT-NAME.

```

MOVE SPACES TO WS-SORT-NAME.
MOVE SI-LAST-NAME TO WS-SOURCE.
SET WSS-IX, WSSN-IX TO 1.
PERFORM 2600-MOVE-CHARACTER
  UNTIL WSS-CH (WSS-IX) = SPACE
    OR WSS-IX > 10.
MOVE SI-FIRST-NAME TO WS-SOURCE.
SET WSS-IX TO 1.
PERFORM 2600-MOVE-CHARACTER
  UNTIL WSS-CH (WSS-IX) = SPACE
    OR WSS-IX > 11.
MOVE SI-MINIMAL TO WSSN-CH (WSSN-IX).
MOVE WS-SORT-NAME TO SI-SORT-NAME.

```

```

2599-EXIT.
EXIT.

```

2600-MOVE-CHARACTER.

```

MOVE WSS-CH (WSS-IX) TO WSSN-CH (WSSN-IX).
SET WSS-IX, WSSN-IX UP BY 1.

```