### cs370 program 4

### Dr. Cheeb is a brilliant scientist. His company, Dr. Cheeb’s Medicine Show, sells healing oils and creams. His business has grown rapidly. Every month, details of Dr. Cheeb’s Medicine Show’s inventory are gathered together into individual Inventory Files from his 3 warehouses. (PR4F19-NV10.TXT, PR4F19-CA20.TXT, and PR4F19-WA30.TXT).

### Dr. Cheeb has asked you to write a program that sorts (WAREHOUSE, VENDERID AND PRODUCTID) AND merges the three inventory files into one file. It then reads in the new input file and gives a detailed listing of the oil and cream inventory he currently has in the three 3 different warehouses. Some supplies he orders from outside Venders.

INPUT: 128-character record on disk

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| CC | FIELD |  |
| 1-4 | Warehouse ID AN | NV10 |
| 5 | Vender ID AN | (I-MadeInHouse, T-Tansia Corp., A-AMEL Ltd, W-WEST Corp) |
| 6-8 | Product ID AN | C01-C10, O01-O-10 |
| 9-128 | Product Data (maximum of 5) | Product Name X(13)  Product Size A ( X- Extra Large, L – Large,  M – Medium, S – Small, A-Sample)  Product Type A (C – Cream, O – Oil)  Number in stock S9(4)  Purchase price S999v99 |
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| --- | --- | --- |
| CC | FIELD |  |
| 1-4 | Warehouse ID AN | CA20 |
| 5 | Vender ID AN | (I-MadeInHouse, D-DENIO Corp., A-AMEL Ltd, W-WEST Corp) |
| 6-8 | Product ID AN | C01-C10, O01-O-10 |
| 9-128 | Product Data (maximum of 5) | Product Name X(13)  Product Size A ( X- Extra Large, L – Large,  M – Medium, S – Small, A-Sample)  Product Type A (C – Cream, O – Oil)  Number in stock S9(4)  Purchase price S999v99 |
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| --- | --- | --- |
| CC | FIELD |  |
| 1-4 | Warehouse ID AN | WA30 |
| 5 | Vender ID AN | (I-MadeInHouse , V-VISSON Corp., N-NETON Ltd, W-WEST Corp) |
| 6-8 | Product ID AN | C01-C10, O01-O-10 |
| 9-128 | Product Data (maximum of 5) | Product Name X(13)  Product Size A ( X- Extra Large, L – Large,  M – Medium, S – Small, A-Sample)  Product Type A (C – Cream, O – Oil)  Number in stock S9(4)  Purchase price S999v99 |
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The report is a multi-level control break with arrays and tables. You will need to sort all three files and merge them into one file.

The keys for sorting, merging and breaking are:

Warehouse – major

Vendor – intermediate

Product - minor

If a Warehouse ID is invalid, write the entire record out to an error file with no formatting and DO NOT include it in the detail report. Keep a count of how many invalid records were written out and display a nice message on the screen at the end of the program informing the user of the number of invalid records.

The Vendor ID is to be expanded via a DIRECT lookup. Hard code the vendor information in working storage in a table. Search the Vendor Table and if the Vendor is not found in the table enter INVALID and the invalid ID number in place of the Vendor Name.

The Product Sizing is to be expanded via an EVALUATE statement. If the Product Size is not found enter BAD and the invalid code in place of the sizing information.

The Product Type should be expanded and validated and if it is not found or is incorrect, enter BAD and the invalid code in place of the info.

The incoming record contains up to five products; blanks appear in the extra fields when an incoming record has fewer than five products (validation will be necessary).

Determine the total cost spent for each product, for each vendor, for each warehouse and the grand total.

### Select and FD statements:

### 3 input unsorted files

### 3 output sorted files

### 1 SD temp- file that the computer uses for the sorting and merging process

### 1 file that will hold the merged data that will become the input for the report

### 1 output report file

### 1 output error file

### It is crucial that sort each unsorted file first then merge the sorted files together. The resulting merged file will be the input file to open and write your report from.