

Summary of Problem Statement**Problem #** 2

Add data validation to a program that determines the highest costing quarter (combine all 5 products) and the associated Total Material, Labor, Transportation, and overall cost as well as the highest costing product for the year and the associated Material, Labor, Transportation, and Total cost for that product.

Known / Input

redo = 1; Defined to make the while loop run the first time through

Unknown / Output

none

Assumptions

none

Other Variables

Dataset2 = must be redefined if user chooses to input new values for the volume data

[r, c] = size(Dataset2); Changes the value of r and c to match the new matrix until r and c match the while condition

Algorithm

The data validation for this program was more straightforward as all it required was 1 while loop which encompassed the vast majority of the code.
using while (r ~= numR) && (c ~= 4) the program makes the user keep entering new matrix until they enter one which meets the conditions desired.

Test Cases

Using the test case provided of [16 14 10; 2 12 15; 3 8 9; 4 14 13; 5 16 12]

[16 14 10 8; 2 12 15 12; 3 8 9 13; 4 14 13 14]

[16 14 10 8; 2 12 15 12; 3 8 9 13; 4 14 13 14; 6 10 12 9]

The output matched that provided by the instructions.