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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
% Finds the total weight of all 12 cables from both sides and then
% finding
% the total cost of all 24 cables.
%
% Assignment Information
%   Assignment:      PS 06, Problem 3
%   Team ID:    008-14
%   Team Member:  John Chapla, jchapla@purdue.edu
%   Team Member:  Matthew Wen, wen101@purdue.edu
%   Team Member:  Donghyun Lee, lee3034@purdue.edu
%   Team Member:  Ranjan Behl, rbehl@purdue.edu
%   Contributor:   Name, login@purdue [repeat for each]
%   My contributor(s) helped me:
%       [ ] understand the assignment expectations without
%           telling me how they will approach it.
%       [ ] understand different ways to think about a solution
%           without helping me plan my solution.
%       [ ] think through the meaning of a specific error or
%           bug present in my code without looking at my code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

CALCULATIONS

```
%a
[total_lengtheast, total_weighteast, total_costeast] =
    PS06_cableUDF_008_14([50 54 58 62 66 70],[30 58 84 108 130 150],[45
```

```
45 45 45 45 36]); % Finding the total length, total weight and total
cost of the 12 cables on the east side
totalweighteast = total_weighteast * 2; %finding the total weight of
the east side cables(both north and south view)
%b
[total_lengthwest, total_weightwest, total_costwest] =
PS06_cableUDF_008_14([50 54 58 62 66 70],[18 34 48 60 70 78],[45 45
45 45 45 36]);% Finding the total length, total weight and total cost
of the 12 cables on the west side
totalweightwest = total_weightwest * 2; %finding the total weight of
the west side cables(both north and south view)
combinedlength = total_lengtheast + total_lengthwest; % finding the
total length of all 24 cables
totalestimatedcost = total_costeast + total_costwest; % finding the
total estimated cost of all 24 cables
```

FORMATTED TEXT & FIGURE DISPLAYS

```
fprintf("\nThe total weight of all 12 cables on the east side of the
bridge is equal to %f k/m" ,totalweighteast);
fprintf("\nThe total weight of all 12 cables on the west side of the
bridge is equal to %f k/m",totalweightwest);
fprintf("\nThe Combined length of all 24 cables is %f
m and the total estimated cost for all 24 cables is $
%f",combinedlength,totalestimatedcost);
```

```
The total weight of all 12 cables on the east side of the bridge is
equal to 387865.968201 k/m
The total weight of all 12 cables on the west side of the bridge is
equal to 275346.684533 k/m
The Combined length of all 24 cables is 1155.020294 m and the total
estimated cost for all 24 cables is $8290158.159174
```

ACADEMIC INTEGRITY STATEMENT

We have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have we provided access to our code to another. The script we are submitting is our own original work.

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