Table of Contents


```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description:
%
% Assignment Information
%   Assignment:     Ma4 Task2
%   Team ID:        LC1-04
%   Contributor:    Ayush Viswanathan, Jackson Bitterolf, Nolan Hays,
%   Roshan Sundar
%   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.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

Function

```
pipe_calc([0.01:0.01:0.05], [0.03:0.02:0.09]);
pipe_calc([5 10 3], [0 1 2 3 4]);
pipe_calc([5 8 10], [2 4]);

function pipe_calc(D_pipe_list, D_rod_list)
    combo = [];
    for i=1:numel(D_pipe_list)
        for j=1:numel(D_rod_list)
            U = 2/(1000*pi*((D_pipe_list(i)/2)^2 -
 ((D_rod_list(j)/2)^2)));
            if U <= 0
                disp([-1 1 -1])
                return;
            elseif U < 300
                combo = [combo; D_pipe_list(i) D_rod_list(j)];
            end
        end
```

```
    end
    disp(combo)
end
```

```
    -1     1    -1

    -1     1    -1

     5     2
     5     4
     8     2
     8     4
    10     2
    10     4
```

OUTPUTS

pipe_calc([0.01:0.01:0.05], [0.03:0.02:0.09]) -1 1 -1

```
% pipe_calc([5 10 3], [0 1 2 3 4])
% -1     1    -1

% pipe_calc([5 8 10], [2 4])
% 5     2
% 5     4
% 8     2
% 8     4
% 10     2
% 10     4
```

ACADEMIC INTEGRITY STATEMENT

I have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I provided access to my code to another. The project I am submitting is my own original work.

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