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```
function[] = PS07_observatory_rbehl_lee3034(x,y)

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
%The function takes in x and y coordinates and then using theses
%coordinates tells if the location of the camera is outside the walls,
%inside the walls,in the room and hall, the offices and the
%  observatory.
%
% Function Call
%PS07_observatory_rbehl_lee3034(x,y)
%
% Input Arguments
%X is the x coordinate
%Y is the y coordinate
%
% Output Arguments
%There are no output arguments
% Assignment Information
%   Assignment:   PS 07, Problem 01
%   Team ID:     008-14
%   Paired Partner:  John Chapla, jchapla@purdue.edu
%   Paired Partner:  Donglee, lee3034@purdue.edu
%   Contributor:   Name, login@purdue [repeat for each]
%   Our contributor(s) helped us:
%       [ ] understand the assignment expectations without
%           telling us how they will approach it.
%       [ ] understand different ways to think about a solution
%           without helping us plan our solution.
%       [ ] think through the meaning of a specific error or
%           bug present in our code without looking at our code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

CALCULATIONS

```
if abs(x) > 6 || (y < -8 || y > 10)
    fprintf("The camera coordinates %d, %d are outside the building
\n",x,y)
elseif abs(x) == 6 || (y == -8 || y == 10)
    fprintf("The camera coordinates %d, %d are on the exterior wall
\n",x,y)
elseif (y == 2 && x > -6 && x < 6) && (sqrt(x^2 + y^2) > 5)
    fprintf("The camera coordinates %d, %d are on the interior wall
\n",x,y)
elseif sqrt(x^2 + y^2) == 5
    fprintf("The camera coordinates %d, %d are on the interior wall
\n",x,y)
elseif x == 0 && (y > -8 && y < -5)
    fprintf("The camera coordinates %d, %d are on the interior wall
\n",x,y)
elseif sqrt(x^2 + y^2) < 5
    fprintf("The camera coordinates %d, %d are inside the observatory
\n",x,y)
elseif (x > -6 && x < 6) && (y > 2 && y < 10) && sqrt(x^2 + y^2) > 5
    fprintf("The camera coordinates %d, %d are inside the exhibit hall
\n",x,y)
elseif ((y < 2 && y > -8) && (x < 0 && x > -8)) && sqrt(x^2 + y^2) > 5
    fprintf("The camera coordinates %d, %d are in the mechanical room
\n",x,y)
else
    fprintf("The camera coordinates %d, %d are inside the offices
\n",x,y)
end
```

Not enough input arguments.

Error in PS07_observatory_rbehl_lee3034 (line 38)
if abs(x) > 6 || (y < -8 || y > 10)

FORMATTED TEXT DISPLAYS

COMMAND WINDOW OUTPUTS

```
%{  
PS07_observatory_rbehl_lee3034(0,7)  
The camera coordinates 0, 7 are inside the exhibit hall  
PS07_observatory_rbehl_lee3034(-7,-9)  
The camera coordinates -7, -9 are outside the building  
PS07_observatory_rbehl_lee3034(6,0)  
The camera coordinates 6, 0 are on the exterior wall  
PS07_observatory_rbehl_lee3034(5.5,2)  
The camera coordinates 5.500000e+00, 2 are on the interior wall  
PS07_observatory_rbehl_lee3034(0,0)  
The camera coordinates 0, 0 are inside the observatory  
PS07_observatory_rbehl_lee3034(-5,-6)  
The camera coordinates -5, -6 are in the mechanical room  
PS07_observatory_rbehl_lee3034(5,-6)  
The camera coordinates 5, -6 are inside the offices  
%}
```

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 function we are submitting is our own original work.

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