

## Part a

```
% Main script
x = 3;
z=[6 2 4 1 -5];
y = sum(z);
[a,b] = funquiz8a(x,y,z);
disp(['Value of a is: ',num2str(a)])
disp(['Value of b is: ',num2str(b)])

% Function
function [x,y] = funquiz8a(a,b,c)
x = 2*b-a;
y=a;
for i=1:length(c)
    y=y+c(i);
end
disp(['Function value of x: ',num2str(x)])
disp(['Function value of y: ',num2str(y)])
disp(['Function value of a: ',num2str(a)])
disp(['Function value of b: ',num2str(b)])
```

Display #	Display
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## Part b

```
% Main script
x = 4;
z=[-8 4 5 -1 3];
y = sum(z);
disp(['Main value of x is: ',num2str(x)])
disp(['Main value of y is: ',num2str(y)])
[y,x] = confuse_function(x,y,z);
disp(['Main value of x is: ',num2str(x)])
disp(['Main value of y is: ',num2str(y)])

% Function
function [x,y] = confuse_function(y,x,z)
for i=1:length(z)
    if (z(i) == x)
        y=i;
    end
end
disp(['Function value of x: ',num2str(x)])
disp(['Function value of y: ',num2str(y)])
```

Display #	Display
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## SOLUTION

Write the command window display for the following script and associated function in the space provided. Hint: You may not need all 10 lines that are provided.

### Part a (12 points)

```
% Main script
x = 3;
z=[6 2 4 1 -5];
y = sum(z);
[a,b] = funquiz8a(x,y,z);
disp(['Value of a is: ',num2str(a)])
disp(['Value of b is: ',num2str(b)])

% Function
function [x,y] = funquiz8a(a,b,c)
x = 2*b-a;
y=a;
for i=1:length(c)
    y=y+c(i);
end
disp(['Function value of x: ',num2str(x)])
disp(['Function value of y: ',num2str(y)])
disp(['Function value of a: ',num2str(a)])
disp(['Function value of b: ',num2str(b)])
```

Display #	Display
1	<b>Function value of x: 13</b>
2	<b>Function value of y: 11</b>
3	<b>Function value of a: 3</b>
4	<b>Function value of b: 8</b>
5	<b>Value of a is: 13</b>
6	<b>Value of b is: 11</b>
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### Part b (12 points)

```
% Main script
x = 4;
z=[-8 4 5 -1 3];
y = sum(z);
disp(['Main value of x is: ',num2str(x)])
disp(['Main value of y is: ',num2str(y)])
[y,x] = confuse_function(x,y,z);
disp(['Main value of x is: ',num2str(x)])
disp(['Main value of y is: ',num2str(y)])

% Function
function [x,y] = confuse_function(y,x,z)
for i=1:length(z)
    if (z(i) == x)
        y=i;
    end
end
disp(['Function value of x: ',num2str(x)])
disp(['Function value of y: ',num2str(y)])
```

Display #	Display
1	<b>Main value of x is: 4</b>
2	<b>Main value of y is: 3</b>
3	<b>Function value of x: 3</b>
4	<b>Function value of y: 5</b>
5	<b>Main value of x is: 5</b>
6	<b>Main value of y is: 3</b>
7	
8	
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