

HW1

Nabin Shrestha

a) findlast index

the for loop doesnot include index 0  
the correct form would be

```
for (int i = x.length - 1; i >= 0; i--)  
{  
}
```

b) if the value of x is null then NullPointerException is resulted before the loop is executed.

c) if the value of y is not at 0 position or appears in the 1, 2 or later position of the array then there is no any error

d) if the value of y is not in the array or y is not in x, there will be error state but not a failure.

e)  $x = [2, 3, 5]$

$y = 2$

expected output = 0

final result = -1

First Error state :  $x = [2, 3, 5]$

$y = 2$

$i = 0$  (if loop is executed)

or  $i = 1$  (if loop is not executed)



Counter positive element

a. if condition should not include zero

```
if x[i] > 0  
{  
}
```

b. if the array size be either null or empty then the fault won't be executed because of `NullPointerException`

c. if there is a non-empty array without zero then the test case will execute the fault, but won't result in error state.

d. for any input that leads to error will result in failure because if an array contains 0 then it will result to error state

e.

$x = [-4, 2, 0, 2]$

expected result = 2

final result = 3

First Error state :  $i = 2$  { because error  
count = 1 { occurs before  
count++ and  
if we use  
the next counter  
it will result error.