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03/23/22

**1.**     **(2 points) Suggest test cases for code intended to find the mean of the positive numbers in an input array.**

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| **Input** | **Output** |
| Array of negative numbers | 0(Whatever the error case is) |
| Array of positive numbers | Expected output |
| Mixed positive and negative numbers | Mean of only positive |
| Zero elements | Null or 0(Whatever error case is) |
| 1 positive number | return input |
| 1 negative number | Return 0(whatever error case is) |
| Array of Characters | Return 0(whatever error case is) |
| Array of mixed characters and positive numbers | Mean of only positive numbers |
| Array of mixed characters and negative numbers | Return 0(whatever error case is) |
| Array of mixed characters and mixed positive/negative numbers | Mean of only positive |
| Array of special symbols | Return 0(whatever error case is) |
| Array of mixed special symbols and positive numbers | Mean of only positive numbers |
| \*\*Cases with special symbols |  |

2.     **(2 points) Examine the following C code, identify additional test cases if needed, and find errors in the code!**

***int****findmean****(int howmany, int \*A) {****// howmany specifies the number of elements to examine in array A*

***int number\_of\_positive\_elements, count, sum;***

***while (count < howmany)***

***count ++;***

***if A[count] > 0 {***

***sum = sum + A[count];***

***number\_of\_positive\_elements++ ;***

***}***

***return (sum/number\_of\_positive\_elements);***

***}***

Errors

* In function definition, did not specify that an array is going into the parameter and not an int
* Did not determine value of howmany before doing while loop and comparing to count
* Did not determine value of count before comparing to howmany
* Did not determine value of number\_of\_positive\_elements before adding it to itself
* Did not determine value of sum before adding it to itself and A[count]
* Count should be <= howmany when comparing or make it (howmany – 1)
* Check if value is a character or special symbol and if it is, pass over it and look solely at the numbers
* In the if statement, the A[count]>0 should be A[count]>=0