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Quiz 5

GDSTRUC OTIE1

<div align="center">Johnny Method Search Algorithm</div>

1. START
2. There will be a given set array data(x), even counter(even_ctr), and odd counter(odd_ctr)
3. First, there will be a for loop to iterate the elements of the array (for (i=0; i < x.length; i++)
4. In each iteration there will be a counter to count if how many odd or even numbers in the array
5. After counting there will be an if else if prompt if the even number counter and odd number counter is equal, if even is higher than odd number
   a. if odd and even numbers in the arrays are equal, the program will prompt to enter a new user input to add a new number to the array until the counters of odd and even are dissimilar.
   b. if even numbers in the array are greater than the odd numbers the array will be sorted.
   c. if odd numbers in the array are greater than the odd numbers, the array will still be unsorted.
6. After then knowing which is higher the system will print the array. Sorted if it's even and unsorted if odd.
7. END

SEE FLOWCHART BELOW:

Start

x = {14,5,12,63,10,31}
even_ctr = 0
odd_ctr = 0
i = 0

For loop for the array element iteration

if condition to know the odd and even numbers in the arrays are equal

i < x.length

No

even_ctr == odd_ctr

True

Prompt user for input

Add input to the array

Yes

If decision to know if the element is odd or even number

False

x[i] % 2 == 0

True

False

even_ctr++

even_ctr++

even_ctr < odd_ctr

Sort array

Print the sorted array

i++

Print the unsorted array

End

Even counter

For loop counter

Odd counter

if condition to know if even counter is greater than odd numbers in the arrays are equal