Jonathan De La Cruz

1D Array IPO

**Input**

Int userNum – user inputted number that decides the size of the array

Int size – size of the array

Int array[] – stores as many random numbers between 1 and 100 as the user wants

Int eSize – effective size of the array

Int sum – sum of all numbers in the array

Int searchNum – user inputted number to search the array for

Int high – highest number in the array

Int low – lowest number in the array

Int average – average number in the array

**Process**

Ask user for how many random numbers to generate: store in userNum

Generate an int array[userNum], fill with random numbers between 1 and 100

eSize = userNum;

Size = array.length;

Print the array using for loop

Sort the array

Print array using for loop

Prompt user for number to search for, store in searchNum. Print “found” or “not found”

Sort in ascending order, print numbers once, along with how many times the number appeared

Sum array, store in sum. Average = sum/size

Sort in descending order, print array[0]

Sort in ascending order, print array[0]

**Output**

See specs