John Marshall Week 2 Lab: Processing 1000 Random Integers
CS112

```
Main{
        Initialize Int[] = randomNums [1000]


        For (Length of randomArray){
                                Array[i] = int(Math.Random*10) +1
                }

        Print  randomNums

        BubbleSort randomNums

        Total = calculated Sum
        Aver = calculated Average

        Print sorted randomNums

        Calculate Sum


        IO file x = John Marshall Week 2 Lab

         Y = printWriter
        Y print John Marshall Week 2 Lab:  Processing 1000 Random Integers
        Blank Line
        Y Print Total
        Blank Line
        Y print Average
        Close Stream
}


BubbleSort( array ){
        Is sorted? = false
        Y = number of times run to subtract from loop passes (end number is known to be the
        highest No need to Compare)
        Int i;

        while(isSorted == false){
                        isSorted = true
```

```
        For (i, length of Array- y, i++)
                (if array[i -1] > array[i]){
                        Swap array[i -1] & array[i]
                }

        }

Calculate sum(array){
Int sum;
                For (i, length of Array- y, i++)
                Sum = sum + array[i]

        }
```