Plagiarism Scan Report

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Design & Analysis of Algorithm (Lab)
Name: Ananya
SAPID: 590013832
B-33
Submitted to: Mr.Aryan Gupta

```
import java.util.*;
public class merge_sort {
public static void merge(int arr[],int left,int mid,int right){
int n1= (mid-left)+1;
int n2=(right-mid);
int L[]=new int[n1];
int R[]=new int[n2];
for(int i = 0;i<n1;i++)
L[i]=arr[left+i];
for(int j = 0;j<n2;j++)
R[j]=arr[mid+1+j];
int i=0;
int j=0;
int k = left;
while(i<n1 && j<n2){
if(L[i]<R[j]){
arr[k]=L[i];
i++; }
else{
arr[k]=R[j];
j++; }
k++; }
while(i<n1){
arr[k]=L[i];
i++;
k++;
}
while(j<n2){
arr[k]=R[j];
```

Merge Sort.....

```
j++;
k++;
```

```
}
}
public static void mergeSort(int []arr,int left,int right){
if(left<right){
int mid= left+(right-left)/2;
mergeSort(arr,left,mid);
mergeSort(arr,mid+1,right);
merge(arr,left,mid,right);
}
}
public static void main(String arg[]){
Scanner sc=new Scanner(System.in);
<mark id="p_0">System.out.println("Enter size of array you want to input: ");
int n= sc.nextInt();
int arr[]=new int[n];
System.out.println("Enter elements : ");
for (int i = 0; i < n; i++) {</mark>
arr[i] = sc.nextInt(); }
System.out.println("Original" + Arrays.toString(arr));
mergeSort(arr,0,n-1);
System.out.println("Updated" + Arrays.toString(arr));
}}
```

Test Case

1.
2.
3.
4.
5
6
7
8
9
10

User Input

Size: 6
Elements: 12 11 13 5 6 7
Size: 7
Elements: 38 27 43 3 9 82 10
Size: 5
Elements: 1 2 3 4 5
Size: 5
Elements: 5 4 3 2 1
Size: 5
Elements: 10 20 10 30 20
Size: 4
Elements: 7 7 7 7
Size: 8
Elements: 9 -3 5 2 6 8 -6 1
Size: 4
Elements: 100 90 80 70
Size: 1
Elements: 1
Size: 0
Elements: -

Expected Output
Original: [12, 11, 13, 5, 6, 7]
Sorted: [5, 6, 7, 11, 12, 13]
Original: [38, 27, 43, 3, 9, 82, 10]
Sorted: [3, 9, 10, 27, 38, 43, 82]
Original: [1, 2, 3, 4, 5]
Sorted: [1, 2, 3, 4, 5]
Original: [5, 4, 3, 2, 1]
Sorted: [1, 2, 3, 4, 5]
Original: [10, 20, 10, 30, 20]
Sorted: [10, 10, 20, 20, 30]
Original: [7, 7, 7, 7]
Sorted: [7, 7, 7, 7]
Original: [9, -3, 5, 2, 6, 8, -6, 1]
Sorted: [-6, -3, 1, 2, 5, 6, 8, 9]
Original: [100, 90, 80, 70]
Sorted: [70, 80,90, 100]
Original: [1]
Sorted: [1]
Original: []
Sorted: []
SCREENSHOTS:
TEST CASES
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Matched Source

Similarity 50%

Title:How to count certain elements in array? - javascript - Stack Overflow

May 25, 2011 • var arrayCount = [1,2,3,2,5,6,2,8]; var co = 0; function findElement ... var arr = [1, 2, 3, 5, 2, 8, 9, 2]; // Count how many 2 there•...

https://stackoverflow.com/questions/6120931/how-to-count-certain-elements-in-array

Similarity 25%

Title:Solved Linked List is a part of the Collection framework - Chegg

Write a program to generate a sorted singly linked list, write a method which takes an element and returns the list with that element inserted such that the list is still sorted. <1,2,5,6,8,9 >+7+<1, 2,5,6,7,8,9> 2.

https://www.chegg.com/homework-help/questions-and-answers/linked-list-part-collection-framework-present-javautil-package-linkedlist-data-structure-l-q57203203