



SDE Technical Test - November

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Question 3 / 4

In given array of elements like [a1,a2,a3,...an,b1,b2,b3,...bn,c1,c2,c3,...cn] Write a program to merge them like [a1,b1,c1,a2,b2,c2,...an,bn,cn].

PS: Do it without using extra memory

Sample Testcases:

Input #00:

{1,2,3,4,5,6,7,8,9,10,11,12}

Output #00:

{1,5,9,2,6,10,3,7,11,4,8,12}

Explanation:

Here as you can notice, the array is of the form

{a1,a2,a3,a4,b1,b2,b3,b4,c1,c2,c3,c4}

Pick your language **C** C++ Java

```

8 //index starts from 1 for simplification
9 int getDestinationIndex(int length, int index){
10     int diff;
11     int dest = -1;
12
13     if(index>=1 && index<=length/3){
14         diff = 0;
15         dest = 3*(index - diff - 1) + 1;
16     }else if(index>=(length/3)+1 && index<=(2*length/3)){
17         diff = length/3;
18         dest = 3*(index - diff - 1) + 2;
19     }else if(index>=(2*length/3)+1 && index<=(3*length/3)){
20         diff = 2*length/3;
21         dest = 3*(index - diff - 1) + 3;
22     }else{
23         //if everything fine.. this will not get printed
24         System.out.println("Something is wrong");
25     }
26
27     return dest;
28 }
29
30 static int[] getMergedArray(int[] a) {
31     int aNew[] = new int[a.length+1];
32     //creating new array for algorithm simplification because of index
33     for(int i=1;i<=a.length;i++){
34         aNew[i] = a[i-1];
35     }
36     //////////////////////////////////////
37
38
39
40
41
42

```

PROGRESS

43
44
45
46
47
48
49 }
50
51

```
////////////////////////////////////////  
for(int i=0;i<a.length;i++){  
    a[i] = aNew[i+1];  
}  
return a;
```

Time Remaining: 00:09:35



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