

Placement Preparation Test 10

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Q.1) Write a function named "remove duplicates" that takes an array of integers in random order and eliminates all the duplicate integers in the array. The function should take two arguments: (1) An array of integers (2) An integer that tells the number of cells An array 'a': The integer array of numbers 'n': The number of integers An the array RETURNS: The function should not return a value, but if any duplicate integers are eliminated, then array is restructured such that the unique value precedes repeated values.

EXAMPLE:

If input is int a[11]=(58,26,91,26,70,70,91,58,58,58,66)

Revised array: A [11] 58 26 91 70 66 70 91 58 58 58 66)

```
package test9;

public class Ques2 {

    public static void removeDuplicates(int arr[],int n)
    {
        int index=0;

        int [] duplicates=new int[n];
        int duplicateIndex=0;
        for(int i=0;i<n;i++)
        {
            boolean isDuplicate=false;
            for(int j=0;j<index;j++)
            {
                if(arr[j]==arr[i])
                {
                    isDuplicate=true;
                    break;
                }
            }
            if(!isDuplicate)
            {
                arr[index]=arr[i];
                index++;
            }
            else
            {
                duplicates[duplicateIndex++]=arr[i];
            }
        }
    }
}
```

```
        for(int i=0;i<duplicateIndex;i++)
    {
        arr[index++]=duplicates[i];
    }
}
public static void main(String[] args) {
    int a[]={58,26,91,26,70,70,91,58,58,58,66};
    int n=a.length;

    removeDuplicates(a,n);

    for(int nums:a)
    {
        System.out.print(nums+" ");
    }
}

}
```