Test Summary

• No. of Sections: 2

• No. of Questions: 3

• Total Duration: 45 min

Section 1 - Coding Proficiency

Section Summary

• No. of Questions: 2

• Duration: 30 min

Additional Instructions:

None

Q1. Less than Key element

Print and count all the numbers which are less than a given key element from a given array

Input Format

Imput contains the no of elements, key value and the elements

Output Format

print the count

Constraints

 $1 \le n \le 10^5$ $1 \le \text{key} \le 10^9$

Sample Input

Sample Output

10 163 9058 364 986 23 98 123 546 908 675 53 4

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. **Eliminate Repeated Elements**

Given two positive integer arrays ary1 and arr2 of lengths len1 and len2 respectively. write a program to count the number of elements which are not common in the arrays.

The input to the function distinctElementCount of two arrays arr1 and arr2 and their lengths len1 and len2 respectively. The function return the number of elements which are not common in both arrays. Example.

arr1 = {1, 2,3, 4, 5, 6, 7, 8, 9, 10}, lent = 10 arr2 = {11, 12, 13, 4, 5, 6, 7, 18, 19, 20}, len2 = 10

The distinct elements are 1, 2, 3, 8, 9, 10, 11, 12, 13, 18, 19 and 20 so the function should return 12.

Input Format

Input contains the length of the arrays and the values

Output Format

Print non repeating elements in {} and the count

Constraints

 $1 \le n \le 10^5$

Sample Input

 $1 \le \text{values} \le 10^9$

Sample Output

5

5 6 34 89 12 45 93 12 93 45 23 78 35

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Section 2 - Essay Writing

Section Summary

• No. of Questions: 1

• Duration: 15 min

Additional Instructions:

None

Q1. **ESSAY WRITING**

Write a response that expresses your thoughts on this statement. To what extent do you agree or disagree? Explain your reasoning.

Directions

The tight curriculum of our education system leaves no room for imagination and creativity.

Keywords



Section	1	-	Coding	Proficiency
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Q1 Test Case

Input Output

7078 28130 6059 3129 14079 5758 17663 19760 18801 26204 10757 249

Weightage - 10

Input Output

7 12 67 56 34 87 98 73 21

Weightage - 5

Input Output

5 56 34 89 12 45 93

Weightage - 5

Input Output

6103 25417 16021 30390 10103 9272 29080 11390 2277 10710 195

Weightage - 10

Input Output

19451 5868 8173 22689 16332 28966 6263 24729 15715 31012 1490

Weightage - 10

Input Output

12916 2171 10815 29404 762 31153 12678 17038 143 25386 21935

974

Weightage - 10

Input Output

3647 8450 29273 9571 2886 16390 1082 3893 10927 6513 26189

W-!-L--- 40

```
weigntage - IU
```

Input Output

```
9511 5017
15504 18679 8521 9585 8333 19377 6992 1536 4918 1
```

Weightage - 10

Input Output

```
26038 29524
12764 399 27717 27559 2083 5944 24333 63 27337 22
```

Weightage - 10

Input Output

```
13983 14799
17480 25653 5142 11369 9919 31802 17154 6899 1855(
```

Weightage - 10

Input Output

```
27880 26102
22587 3793 4555 26587 3873 2468 17162 28220 12267
```

Weightage - 10

Sample Input Sample Output

```
10 163
9058 364 986 23 98 123 546 908 675 53
```

Solution

printf("%d",count);

```
return 0;
   }
   #include <stdlib.h>
   #include<stdio.h>
   int main()
   {
       int test_case,size,count=0,ctr,ind,key,arr[100000];
       //scanf("%d",&test_case);
       //for(ctr=0;ctr<test_case;ctr++)</pre>
       //{
           scanf("%d %d",&size,&key);
           for(ind=0;ind<size;ind++)</pre>
                 scanf("%d",&arr[ind]);
          for(ind=0;ind<size;ind++)</pre>
                if(arr[ind]<key)</pre>
                     count++;
          printf("%d",count);
       //}
       return 0;
   }
Test Case
Input
                                                         Output
                                                            7
  10 3
  9058 364 986 23 98 123 546 908 675 53
  23 53 98
Weightage - 5
                                                         Output
Input
  6 7
                                                            11
  23 364 98 234 79 244
  67 56 34 87 98 73 21
Weightage - 5
                                                         Output
Input
                                                            75
  69 6
  780 3394 7197 3441 5275 8369 2833 9811 9302 888
  4749 141 7179 2387 2880 956
Weightage - 10
Input
                                                         Output
  29 67
                                                            96
```

1618 2896 8985 3551 86 5046 2599 8949 798 1786 2 5988 7559 6966 6516 6719 80 1636 6078 8635 51 25

//}

Q2

Sample Input Sample Output

2905 7170 5687 2790

Weightage - 10

cample input

```
5 6
34 89 12 45 93
12 93 45 23 78 35
```

Solution

Header

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>
int distinctElementCount( int *arr1,int *arr2,int size1,int size2)
    int index1,index2=0,output[100000],search;
     for(index1=0; index1<size1 ; index1++)</pre>
         search=arr1[index1] ; for(index2=0 ; index2<size2 ; index2++)</pre>
                   if(search == arr2[index2])
                          arr1[index1] = -1;
                          arr2[index2] = -1;
           }
        }
    index2=0;
     for(index1 = 0 ; index1<size1 ; index1++)</pre>
         if(arr1[index1]!=-1)
              output[index2++] = arr1[index1];
     for(index1 = 0 ; index1<size2 ; index1++)</pre>
     {
          if(arr2[index1]!=-1)
               output[index2++] = arr2[index1];
     return index2;
}
```

Footer

```
int main() {
    int arr1[100000],arr2[100000];
    int size1, size2, index1, index2, test,ctr,search;
    //scanf("%d",&test);
    //for(ctr=1; ctr<=test; ctr++)
    //{
        scanf("%d%d",&size1, &size2);
        for(index1=0;index1<size1;index1++)
            scanf("%d",&arr1[index1]);
        for(index1=0;index1<size2;index1++)
            scanf("%d",&arr2[index1]);
    index2=distinctElementCount(arr1,arr2,size1,size2);</pre>
```

Header

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>
int distinctElementCount( int *arr1,int *arr2,int size1,int size2)
    int index1,index2=0,output[100000],search;
     for(index1=0; index1<size1 ; index1++)</pre>
         search=arr1[index1] ; for(index2=0 ; index2<size2 ; index2++)</pre>
                   if(search == arr2[index2])
                          arr1[index1] = -1;
                          arr2[index2] = -1;
           }
        }
    index2=0;
     for(index1 = 0 ; index1<size1 ; index1++)</pre>
     {
         if(arr1[index1]!=-1)
              output[index2++] = arr1[index1];
     for(index1 = 0 ; index1<size2 ; index1++)</pre>
          if(arr2[index1]!=-1)
               output[index2++] = arr2[index1];
     return index2;
}
```

Footer

```
int main() {
    int arr1[100000],arr2[100000];
    int size1, size2, index1, index2, test,ctr,search;
    //scanf("%d",&test);
    //for(ctr=1; ctr<=test; ctr++)
    //{
        scanf("%d%d",&size1, &size2);
        for(index1=0;index1<size1;index1++)
            scanf("%d",&arr1[index1]);
        for(index1=0;index1<size2;index1++)
            scanf("%d",&arr2[index1]);</pre>
```

Section 2 - Essay Writing

Q1 Sample Essay

No Essay

Keywords

TIGHT, CURRICULUM, OUR, EDUCATION, SYSTEM, LEAVES, NO, ROOM, IMAGINATION, CREATIVITY,

