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2 Oct, 2020

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Assignment - 1 (Flutter & Dart)

Q-5 Find Anagram string
"listen"
"silent"

```
#include<iostream>
using namespace std;
int anagram (char str1[], char str2[])
{
int i, flag=0, x[26]={0}, y[26]={0};
for (i=0; str1[i]!='\0'; i++)
x[str1[i]-'a']++;
for (i=0; str2[i]!='\0'; i++)
y[str2[i]-'a']++;
for (i=0; i<26; i++)
{
if (x[i]!=y[i])
flag=1;
}
if (flag==1)
cout<<" entered strings are not anagrams.";
else
cout<<"entered strings are anagrams.";
}
int main()
{
char str1[50], str2[50];
int flag;
cout<<" enter string 1:";
```

```
gets (str1);
cout << "enter string 2 : ";
gets (str2);
anagram (str1, str2);
return 0;
}
```

output

Enter string 1: listen
Enter string 2: silent

entered strings are anagrams.

Q-4 Find the missing no.

Input arr [] = { 1, ?, 4, 6, 3, 7, 8} output : 5
Input arr [] = { 1, ?, 3, 5} output : 4

Solution (i)
```
def absents_digits (n):
    all_nums = set ([0,1,2,3,4,5,6,7,8,9])
    n = set ([int (i) for i in n])
    n = n. symmetric_difference (all_nums)
    n = sorted (n) return n
```
Print ~~return print~~ (absent_digits ([1,2,4,6,3,7,8]))

output

5

(ii)
```
def absent_digits(n):
    all_nums = set([0,1,2,3,4,5,6,7,8,9])
    n = set([int(i) for i in n])
    n = n.symmetric_difference(all_nums)
    n = sorted(n)
    return n
print(absent_digits([1,2,3,5]))
```

Output

4

Q-3 Find the leader element in an Array.
Write a Program to Print all the leaders in the array.
An element is leader if it is greater than all the elements to its right

Solution
```
#include <iostream>
using namespace std;
void printleaders(int arr[], int size)
{
  for(int i=0; i<size; i++)
  {
    int j;
    for(j=i+1; j<size; j++)
    {
    if(arr[i]<=arr[j])
      break;
    }
```

```
cout << arr[i] << " ";
}
}
int main()
{
  int arr[] = {300, 40, 60, 90, 100, 12, 16, 17, 4, 3, 5, 2};
  int n = sizeof(arr)/sizeof(arr[0]);
  printLeaders(arr, n);
  return 0;
}
```

OUTPUT

300, 100, 17, 5, 2