

ASSIGNMENT-1

Submitted To:

Niaz Ashraf Khan

Lecturer
University of Liberal Arts Bangladesh

Submitted By:

Name: Md Abul Hashem

Roll: 222014097 Course : CSE1201

Section: 2

Problem on Array 1

You're given an array that contains N-1 number of elements from 1 to N. Only one distinct integer is missing. Your task is to find out the missing integer and then print it.

Sample Input 1

N=3

N-1 Integers \rightarrow 1 3

Output: 2

Sample Input 2

N=5

N-1 Integers -> 5 2 1 4

Output: 3

Problem on Array 2

Write a program in C to print all unique elements of an unsorted array.

Expected Output:

The given array is: 15857324162

Unique Elements in the given array are:

15873246

Problem on Functions

Find all factors of a number by using a single function:

- a) Call the function from main()
- b) Store the factors in an array then print it
- c) Reversely print the factors of array elements
- d) Return the sum of all factors to the main

```
[Problem on Annay-1]
#include <stdio.h>
#include < String. 4>
   int main()
    int n, sum = 0;
        preintf ("Entere size of amorey:");
    for( in+ i=0; in-1; i++)
    {
        seant ("1.d", & anr [i]);
        Sum = Sum+ arte[i];
    in+ +o+a1 = (n* (n+1))/2;
    int missum;
    misssum = total - sum;
         PTCintf ("The sum is: y.d", missum);
    Return 03
```

```
[Problem On Attray-2]
#include (stdio.h>
# include (streing.h)
int main ()
{
    int ark1[] = {1,5,8,5,7,3,2,4,1,6,2};
    int n;
    n = size of (arra) / size of (int),
    かけ かかな
    preint f (" The given arrivary is: ");
    for (i=0; i<n; i++)
     3
         preintf(" 9.d", arcrilii);
     }
     preintf ("\n");
     preintf ("Unique Elements in the given
              מדנודמן מדנפו וא יי);
    for (i=0; +5m; i++)
     {
         forc(=0; i/i; i++)
              (Lt] I nno = = [i] rnno)ti
                 break;
           }
               16(===1){1
                preint ("יום", מתת ברוש) }}
 return 0;
```

```
[Problem on Function]
#include <stdio.h>
int fact (int n)
int main()
   int no
   prointf ("Entera Number");
    seanf (" o, d", &n);
    fact(n);
    treturn 0;
  int fact (int n)
      int i, arr [100];
      int count = 0;
      preintfe" The factors of rid are: m", m;
      for( ( = 1 > i <= n > i++)
         if(ny. i = =0)
            accre [count] = i;
            prcints ("% din", i) 3
             count ++3
```

```
PTCINH(" The factors of god in toverse
         order are: mis);
for (i= eount ; 1; i>= 0; i--)
     preints ("olodin", arte[i]);
  int Sum = 0;
  for( i=0; i < count; i++)
     Sum + = arkeij;
     preintf ("The sum of factors of
              4.d is: 4.dm", n, sum);
10
Meturn Sum;
```