

**NOTE:**

- Test Duration - 30 mins
  - Attempt question in C++ / Java / C#
  - Do not write anything on question paper
- 

**SET A****Qus 1**

Missing number in Integer array of size N. N means largest number.

**Condition-** The array should be traversed only once, which means only one loop to visit each array element only once. Don't use inbuilt function and sorting conditions.

---

Input:

[1, 2, 3, 4, 6, 9, 8, 10]

int N = 10

Output:

5,7

Given:-     `int[] nums = {1, 2, 3, 4, 6, 8, 9, 10};`

output = 5, 7

```
static void Main ( )
```

```
{
```

```
    int[] nums = {1, 2, 3, 4, 6, 8, 9, 10};
```

```
    int count = 0, first = 0, last = 0;
```

```
    for (int i = 0; i < nums.Length; i++)
```

```
    {
```

```
        count++;
```

```
        if (nums[i] != count && first == 0)
```

```
        {
```

```
            first = count;
```

```
            i--;
```

```
            Console.Write (first + " ");
```

```
        }
```

```
    else if (nums[i] != count)
```

```
    {
```

```
        last = count;
```

```
        i--;
```

```
        Console.Write (last + " ");
```

```
    }
```

```
}
```

```
}
```

## Win Information Technology Pvt. Ltd.

### Instructions for Interview

1. Do turn off your cell phone
2. Test Duration : 45 mins
3. Do not write anything on question paper

**Q.1.** Given an array of integers temperatures represents the daily temperatures, return an array answer such that answer[i] is the number of days you have to wait after the ith day to get a warmer temperature. If there is no future day for which this is possible, keep answer[i] == 0 instead.

**Example:**

**Input:** temperatures = [73,74,75,71,69,72,76,73]

**Output:** [1,1,4,2,1,1,0,0]

Given:-

int[] temp = {73, 74, 75, 71, 69, 72, 76, 73};

~~int[]~~ output = {1, 1, 4, 2, 1, 1, 0, 0}.

Sol

static void Main ( )

{  
int[] temp = {73, 74, 75, 71, 69, 72, 76, 73};

int[] dis = new int[temp.Length];

for (int i=0 ; i<temp.Length ; i++)

{  
for (int j=i+1 ; j<temp.Length ; j++)

{  
if ( temp[i] < temp[j])

{  
dis[i] = j-i ;  
break;  
}

}  
Console.WriteLine ( dis[i] + " , " );

}

}

## Print Pattern without using for loops

```
1
2 2
3 3 3
4 4 4 4
```

sol

```
static void Main ( )
{
    Console.WriteLine("Enter no. of rows:");
    int n = Convert.ToInt32(Console.ReadLine());
    int i = 0; int j = 1;

    while (i <= n)
    {
        if (j <= i)
        {
            Console.Write(j);
            j++;
            Continue;
        }
        else
        {
            i++;
            j = 1;
        }
        Console.WriteLine();
    }
}
```

swapping the given string "BALAGARU"

```
static void Main ( )
```

```
{ string name = "BALAGARU";
```

```
char [] name1 = name.ToCharArray();
```

```
string name2 = " ";
```

```
for (int i = name1.Length - 1 ; i >= 0 ; i--)
```

```
{
```

```
    name2 += name1[i];
```

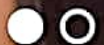
```
}
```

```
Console.WriteLine(name2);
```



Q. There is an array with every element repeated twice except one. Find that element?

For example if given array is {1,5,1,4,3,2,4,2,5} then your program should return 3.  
You should NOT use a sorting algorithm to solve this problem.



**Instructions for interview**

1. Do turn off your cell phone
2. Test Duration – 45 mins
3. Do not write anything on question paper

1. Given two integer arrays nums1 and nums2, print the maximum length of a subarray that appears in both arrays.

Input: nums1 = [1,2,3,2,1], nums2 = [3,2,1,4,7]

Output: 3

Explanation: The repeated subarray with maximum length is [3,2,1].