**Arrays- PART2**

Q1)

Write a C program to move all 0’s to the end of an array.

Original array:

0 0 1 0 3 0 5 0 6

After moving 0's to the end of the array:

1. 3 5 6 0 0 0 0 0

#include<stdio.h>

int main()

{

int i,n,s=0;

scanf("%d",&n);

int a[n];

for(i=0;i<n;i++)

{

scanf("%d",&a[i]);

}

for(i=0;i<n;i++)

{

if(a[i]!=0)

{

a[s]=a[i];

s=s+1;

}

}

for(i=s;i<n;i++)

{

a[s]=0;

s=s+1;

}

for(i=0;i<n;i++)

{

printf("%d ",a[i]);

}

return 0;

}

Q2)

Given an array **arr[]** of size **N**. The task is to find the sum of **arr[i] % arr[j]** for all valid pairs.

**Examples:**

**Input:** arr[] = {1, 2, 3}

**Output:** 5

Explanation:   
(1 % 1) + (1 % 2) + (1 % 3) + (2 % 1) + (2 % 2)  
+ (2 % 3) + (3 % 1) + (3 % 2) + (3 % 3) = 5

**Input:** arr[] = {1, 2, 4, 4, 4}  
**Output:** 10