



National Education Society &
Jawaharlal Nehru National College of Engineering,
Shivamogga-577204
Department of Computer Science and Engineering
COSMOS 2018-19



Date: 19/09/2018

CIRCULAR


All students of the department of Computer Science and Engineering are hereby informed that the department forum COSMOS has arranged Technical Event (C Programming Contest).

The detail of the event is as follows:

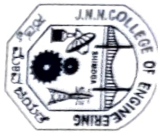
Topic:	"C Programming Contest"
Date:	23-09-2018 to 24-09-2018
Submission Time:	on or before 11.30pm of 24-09-2018
Resource Person:	Mr. Chetan K. R., Assistant Professor, Dept. of CS&E, JNNCE

Make use of this opportunity.


Coordinator Signature


H.O.

Dr. Nirmala S.
Professor and
Dept. of Computer Science
J.N.N. College of Engineering
Shivamogga -



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Jawahar Lal Nehru National College of Engineering,
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COSMOS 2018-19



C Programming Contest Question

Date: 23/09/2018

Write a C program to accept N numbers. Find the numbers having maximum consecutive ones (1's) in their binary representation. Eg: 41, 12, 135, 46 Their binary representations are: (101001), (1100), (10000111) and (101110) and consecutive ones: 0,2,3,3 hence numbers with max consecutive ones are 135 and 46.

Date and Timings: 23-09-2018 to 24-09-2018 on or before 11.30.

Coordinator Signature

H.O.D

Dr. Nirjala Shivannand
Professor and Head
Dept. of Computer Science of Engg.
J.M.M. College of Engineering
shivamogga - 577204.

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Welcome ARPITHA J A

C-Programming Contest:

Write a C program to accept N numbers. Find the numbers having maximum consecutive ones(1's) in their binary representation.

E.g. 41, 12, 135, 46 Their binary representations are: (101001), (1100), (1000011) and (101110) and consecutive ones : 0,2,3,3 hence numbers with max consecutive ones are 135 and 46

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Your submissions

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STUDENTS PAGE FOR VIEWING QUESTIONS AND PROVIDING SOLUTIONS

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

SAMPLE SOLUTION

```
#include<stdio.h>

int main()
{
    int n,i,j,count,temp,maxval=0;
    printf("Enter n\n");
    scanf("%d",&n);
    printf("Enter the numbers\n");
    int num[n];
    for(i=0;i<n;i++)
    {
        scanf("%d",&num[i]);
    }

    int max[n],max1[n];
    for(i=0;i<n;i++)
    {
        max[i]=max1[i]=dtob(num[i]);
    }

    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(max[i]>max[j])
            {
                temp=max[i];
                max[i]=max[j];
                max[j]=temp;
            }
        }
    }
    maxval=max1[n-1];
    printf("\nThe numbers having maximum no of consecutive 1's are\n");
    for(i=0;i<n;i++)
    {
        if(max1[i]>=maxval)
            printf("%d\n",num[i]);
    }
}
```

```
int dtob(int n)
{
    int binaryNumber = 0;
    int remainder, i = 1, count1=0, count=0;

    while (n!=0)
    {
        remainder = n%2;
        n /= 2;
        binaryNumber += remainder*i;
        i *= 10;
        if(remainder==1)
            count++;
        else if(remainder==0)
        {
            count=0;
        }
        if(count>count1)
            count1=count;
    }

    return count1;
}
```

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