



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



Date: 01/04/2019

CIRCULAR

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

The detail of the event is as follows:

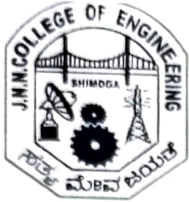
Topic:	"COSMO CODING"
Date:	05-04-2019
Submission Time:	7.30pm-12.00 pm on 05-04-2019
Resource Person:	Mr. Chetan K. R., Assistant Professor, Dept. of CS&E, JNNCE

Make use of this opportunity.


Coordinator Signature


H.O.D

Dr. Nirmala Shivanand
Professor and Head
Dept. of Computer Science of Engg
J.N.N. College of Engineering
Shivamogga - 577204



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COSMO-Coding Contest Question

COSMO-Coding:

- Read the name of a person (It may include space and .)
- Convert each character into ASCII value
- Convert each ASCII value into binary
- Find maximum continuous number of 1's in binary
- (E.g. if binary is 01100111 then maximum continuous number of 1's is 3)
- Out of maximum continuous number of 1's for each character find highest one

Example

Read the name of a person (It may include space and .)	Chetan K. R.
Convert each character into ASCII value	67 104 101 116 97 110 32 75 46 32 82 46
Convert each ASCII value into binary	01000011 01101000 01100101 01110100 01100001 01101110 00100000 01001011 00101110 00100000 01010010 00101110
Find maximum continuous number of 1's in binary	2 2 2 3 2 3 1 2 3 1 1 3
Out of maximum continuous number of 1's for each character find highest one	3 [t n .] should be output

Marks will be stage-wise (Try to finish as many steps possible)
 In case multiple correct entries are received, one who writes functions and optimizes logic will get weightage)

Languages used: C, C++, Java , Python

Important note: Don't import any extra libraries/packages/headers use core language features only


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COSMO SPARK

Igniting the minds for creativity

Welcome ADARSH S M

Question:

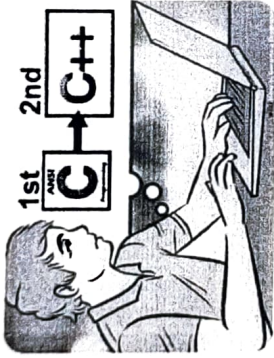
COSMO-Coding: Write a program for given scenario
(Language-C/C++/Java/Python)
Timings: 7.30-12.00 pm on 05-04-2019

[Details](#)

[Submission closed](#)

[Solution of COSMOS-Cross Click here](#)

[Solution of COSMO-Cubulary Click here](#)



[Your submissions](#)

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STUDENTS PAGE FOR VIEWING QUESTIONS
AND SUBMITTING ANSWER/SOLUTION

SAMPLE SOLUTION

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```
import java.util.Scanner;
import java.util.regex.*;
public class Cosmos {

    static int[] CharacterToASCII(char[] c)
    {
        int a[]=new int[c.length];
        for(int i=0;i<c.length;i++)
            a[i]=(int)c[i];

        return a;
    }

    static String[] ASCIItoBinary(int[] a)
    {
        String bs[]=new String[a.length];
        for(int i=0;i<a.length;i++)
            bs[i]=Integer.toBinaryString(a[i]);

        return bs;
    }

    static int[] NumberOfOne(String[] bs)
    {
        int c[]=new int[bs.length];
        for(int i=0;i<bs.length;i++)
        {
            char ch[]=bs[i].toCharArray();
            int flag=0,max=-1,count=0;
            for(int j=0;j<ch.length;j++)
            {
                if(ch[j]=='0')
                {
                    flag=0;
                    count=0;
                }
                else
                {
                    flag=1;
                }
            }
            if(flag==1)
                count++;
            if(count>max)
                max=count;
        }
        c[i]=max;
    }
    return c;
}
```

```

}

public static void main(String[] args) {
    Scanner s=new Scanner(System.in);
    String name=s.nextLine();
    char character[]=name.toCharArray();

    for(int i=0;i<character.length;i++)
    {
        String k=Character.toString(character[i]);
        if(Pattern.matches("[^A-Za-z 0-9\\.",k))
        {
            System.out.println("Please Enter valid Name....");
            return;
        }
    }

    int ASCII[]=CharacterToASCII(character);

    String Binary[]=ASCIItoBinary(ASCII);

    int maxArray[]=NumberOfOne(Binary);
    int MaxOne=0;
    for(int i=0;i<maxArray.length;i++)
    {
        if(maxArray[i]>MaxOne)
            MaxOne=maxArray[i];
    }
    /*
    for(int i=0;i<maxArray.length;i++)
    {
        if(maxArray[i]==MaxOne)
            System.out.println(character[i]);
    }
    */

    for(int i=0;i<maxArray.length;i++)
    {
        if(maxArray[i]==MaxOne)
        {
            int flag2=1;
            for(int j=0;j<i;j++)
            {
                if(character[i]==character[j])
                    flag2=0;
            }
            if(flag2==1)
                System.out.println(character[i]);
        }
    }
}

```




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Date: 02/04/2018

COSMO-Coding Contest Result

SI.NO.	USN	NAME	SEM	ONLINE SUBMISSION DATE AND TIME	POINTS
1.	4JN16CS102	SUCHETAN J	6	2019-04-05 18:28:06	18
2.	4JN17CS028	GOWTHAM S	4	2019-04-05 18:36:43	18
3.	4JN15CS103	SPOORTHI P	8	2019-04-05 15:27:45	17
4.	4JN16CS027	HALIMA ERUM	6	2019-04-05 17:12:13	17
5.	4JN17CS009	APOORVA U	4	2019-04-05 18:10:22	15
6.	4JN16CS053	PANNAGA Y S	6	2019-04-05 15:29:45	14
7.	4JN15CS090	SHAMANTH P	8	2019-04-05 15:31:51	14
8.	4JN16CS104	SUPREETHA H V	6	2019-04-05 16:15:02	13
9.	4JN17CS022	G F SUBHAN SHARIFF	4	2019-04-05 17:04:53	13
10.	4JN17CS092	SINCHANA P SHETTAR	4	2019-04-05 18:44:43	13
11.	4JN16CS072	RAMANATH PAI M D	6	2019-04-05 18:09:30	12
12.	4JN16CS103	SUHAS BHARADWAJ K	6	2019-04-05 20:13:47	12
13.	4JN16CS014	ARPITHA J A	6	2019-04-05 17:24:50	11
14.	4JN16CS077	RASHMI B S	6	2019-04-05 18:30:41	8
15.	4JN15CS028	HAREESH JANARDHAN NAIK	8	2019-04-05 16:42:19	7
16.	4JN16CS040	MANJUNATHA V AMBORE	6	2019-04-05 18:27:12	7
17.	4JN17CS087	SHREERAKSHA M S	4	2019-04-05 15:51:58	6
18.	4JN16CS030	JYOTHI T S	6	2019-04-05 16:49:10	6
19.	4JN16CS033	KARTHIK N UDUPA	6	2019-04-05 18:22:07	6

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