



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



Date: 03/10/2018

CIRCULAR

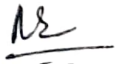
All students of the department of Computer Science and Engineering are hereby informed that the department forum COSMOS has arranged Technical Event (ONLINE CODING).

The detail of the event is as follows:

Topic:	"ONLINE CODING"
Date:	06-10-2018 to 07-10-2018
Submission Time:	on or before 11.30pm of 07-10-2018
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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ONLINE CODING Contest Question

Write a C program that reads a file consisting of multiple lines of text. Sort the lines according to max unique characters in each line. Store the sorted result in a separate file. E.g. i/p file contents: sandal wood, Holly wood, rose wood in separate lines respectively. first line has 4, second line has 3 and third line has 5 unique characters respectively. sorted o/p file contents: rose wood, sandal wood, Holly wood.

Date and Timings: 06-10-2018 to 07-10-2018 on or before 11.30.


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SAMPLE SOLUTION

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
void main()
{
    FILE *file1;
    int lc=0,i,maxc=0,c=0,j;
    file1 = fopen("input.txt", "r");
    if (file1 == NULL)
    {
        printf("enter correct input file \n");
        exit(0);
    }
    char ch = getc(file1);
    while (ch != EOF)
    { c++;
      if(ch=='\n')
      { lc++;
        if(c>maxc)
          maxc=c;
        c=0;
      }
      ch = getc(file1);
    }
    char file[lc][maxc];
    rewind(file1);
    i=0,j=0;
    ch='h';
    while(ch != EOF)
    { ch = getc(file1);
      while((ch!='\n')&&(ch != EOF))
      { file[i][j]=ch;
        j++;
        ch =getc(file1);
```

```
    file[j]=file[j];
    j=0;
    i++;
}
int uni[1c];
int l,fl,cc,m,n;
maxc=0;
for(i=0;i<1c;i++)
{ cc=0;
  l=strlen(file[i]);
  char temp[l];
  for(j=0;j<l;j++)
    temp[j]=file[i][j];
  for(j=0;j<l-1;j++)
  {
    fl=0;
    if(temp[j]==' ')
      continue;
    for(m=j+1;m<l;m++)
    {
      if(temp[m]==' ')
        continue;
      if(temp[j]==temp[m])
      {
        temp[m]=' ';
        fl=1;
      }
    }
    if(fl==1)
      temp[j]=' ';
  }
  for(n=0;n<l;n++)
  {
    if(temp[n]!=' ')
      cc++;
    temp[n]='\0';
```

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```
    }
    uni[i]=cc;
}
FILE *file2= fopen("ouput.txt", "w");
for(i=0;i<lc;i++)
{ maxc=-1;
  for(j=0;j<lc;j++) {
    if(maxc<uni[j])
    {
      maxc=uni[j];
      n=j;
    }
  }
  fprintf(file2,"%s", file[n]);
  fprintf(file2,"%c", '\n');
  uni[n]=-1;
}
fclose(file1);
fclose(file2);
printf("DONE!!!!");
}
```



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Date: 07/10/2018

ONLINE CODING Contest Result

SI.NO.	USN	NAME	SEM	ONLINE SUBMISSION DATE AND TIME	POINTS
1.	4JN16CS053	PANNAGA Y S	5	2018-10-06 05:39:20	10
2.	4JN15CS028	HAREESH JANARDHAN NAIK	7	2018-10-07 15:31:56	9
3.	4JN15CS001	ADARSH S	7	2018-10-06 16:38:17	8
4.	4JN15CS043	MEGHA S D	7	2018-10-06 18:14:15	7
5.	4JN16CS027	HALIMA ERUM	5	2018-10-07 07:31:37	7
6.	4JN16CS014	ARPITHA J A	5	2018-10-07 07:37:11	5
7.	4JN16CS104	SUPREETHA H V	5	2018-10-07 18:25:04	5
8.	4JN15CS090	SHAMANTH P	7	2018-10-07 08:40:02	4
9.	4JN15CS121	VIMOCHANA K	7	2018-10-07 17:15:39	4
10.	4JN16CS103	SUHAS BHARADWAJ K	5	2018-10-06 20:38:41	3


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