PS STRING

1) input: apple output: apple 1211 25

```
1 #include <stdio.h>
                                                                                           /tmp/N6RcCgTNJe.o
2 #include<string.h>
                                                                                           hiii hello
                                                                                           hiii hello
3 - int main() {
    char s[100];
fgets(s,100,stdin);
                                                                                           12121121
5
                                                                                           121
    s[strcspn(s,"\n")]='\0';
    printf("%s\n",s);
                                                                                           === Code Execution Successful ===
    int sum=0;
for(int i=0;s[i]!='\0';i++)
8
9
10 - {
11
           if(s[i]==s[i+1])
12 -
               printf("2");
13
               sum+=2;
15
               1++;
16
17
           else
18 -
           {
19
               printf("1");
20
               sum+=1;
21
22
      printf("\n%d",sum*sum);
23
```

2) (get input as array of string and return its even indexed string)

```
[] G & Share
 main.c
                                                                                                 Output
  1 #include <stdio.h>
                                                                                                /tmp/9wts50UF3I.o
 2 #include<string.h>
                                                                                                4
 3 - int main() {
                                                                                                hii
       int n;
                                                                                                i
       scanf("%d",&n);
                                                                                                am
      while(getchar()!='\n');
char s[100][100];
                                                                                                kani
                                                                                                i
      for(int i=0;i<n;i++)</pre>
 9 +
 10
        fgets(s[1],100,50011,,,
s[i][strcspn(s[i],"\n")]='\0';
             fgets(s[i],100,stdin);
 11
                                                                                                === Code Execution Successful ===
12
13
        for(int i=1;i<n;i+=2)
 14 +
15
             printf("%s\n",s[i]);
16
17 }
```

3) highest frequency

```
1 #include <stdio.h>
2 #include<string.h>
                                                                                                        /tmp/UZr37n1QDH.o
                                                                                                        jananijamunakarthikaakanigasreekavipriyakavyadharshini
  3 * int main() {
                                                                                                         'a' occurs 14 times
             char s[100];
             fgets(s,100,stdin);
                                                                                                        === Code Execution Successful ===
             s[strcspn(s,"\n")]='\0';
             int len=strlen(s),count=1,max=0;
             char c;
             for(int i=0;i<len;i++)
 10 -
                 if(s[i]!='\0')
 12
 13 +
                      for(int j=i+1;j<len;j++)</pre>
 14
 15 +
 16
                          if(s[i]==s[j])
 17 -
 18
                             count++:
                             s[j]='\0';
 19
 20
 21
                 if(count>max)
23
 24 -
 25
                      max=count:
 26
                      c=s[i];
 28
 29
             printf("'%c' occurs %d times",c,max);
```

4) FREQUENCY OF THE FIRST REPEATING CHARACTER

```
/tmp/3DbYH395Qj.o
 1 #include <stdio.h>
 2 #include<string.h>
                                                                                                         janani jamuna
 3 - int main() {
                                                                                                          'j' occurs 2 times
 4 char s[100];
 5  fgets(s,100,stdin);
6  s[strcspn(s,"\n")]='\0';
7  int n=strlen(s),count=1;
                                                                                                          === Code Execution Successful ===
 8
       for(int i=0;i<n;i++)</pre>
 9 +
 10
           count=1:
           if(s[i]!='\0')
 11
 12 -
 13
                for(int j=i+1;j<n;j++)</pre>
 14 -
 15
                     if(s[i]==s[j])
 16 -
 17
                         count++:
                         s[j]='\0';
 18
 19
 20
 21
 22 -
 23
                    printf("'%c' occurs %d times",s[i],count);
24
                    break;
25
26
27 }
28 }
```

5) RETURN NUMBER OF PEOPLE WHOSE AGE ABOVE 60

```
1 #include <stdio.h>
                                                                                                          /tmp/ckvrLYhcYx.o
 2 #include<string.h>
3 - int main() {
                                                                                                          1234567890F6389
4 int n,i=0,j=0,num=0,count=0;
                                                                                                          1234567890M5289
 5 scanf("%d",&n);
                                                                                                          1234567890F6611
6 getchar()!='\n';
                                                                                                          63
7 char s[100][100];
8 for(int i=0;i<n;i++)
9 {
                                                                                                          52
                                                                                                          66
                                                                                                          2
10
          fgets(s[i],100,stdin);
         s[i][strcspn(s[i],"\n")]='\0';
                                                                                                          === Code Execution Successful ===
12
13 char age[3];
14
     for(i=0;i<n;i++)
15 - {
16
          for(j=0;j<2;j++)
17 -
            age[j]=s[i][11+j];
18
19
         age[j]='\0';
20
21
         j=0,num=0:
         while(age[j]!='\0')
22
23 +
         num=(num*10)+(age[j]-'0');
j++;
24
25
26
         printf("%d\n",num);
27
28
        if(num>60)
29
               count++;
30 }
31
     printf("%d",count);
32 }
```

6)Find the maximum of a character in a given string .lgore the case(lower or upper case).Return the character in lower case Input:Test Output:t

```
1 #include <stdio.h>
                                                                                                            /tmp/kEKd8rKQcq.o
  2 #include<string.h>
                                                                                                            HIiheLlo
3 #include<ctype.h>
                                                                                                            h
  4 - int main() {
           char s[100],c;
                                                                                                            === Code Execution Successful ===
         fgets(s,100,stdin);
         s[strcspn(s,"\n")]='\0';
int n=strlen(s),count=1,max=0;
  8
  9
         for(int i=0;i<n;i++)
  10 -
  11
              if(s[i]!='\0')
  12
 13 +
                   for(int j=i+1;j<n;j++)</pre>
  14
  15 +
                   s[i]=tolower(s[i]);
  17
                     if(s[i]==(tolower(s[j])))
 18 -
 19
                          count++;
 20
                         s[j]='\0';
 22
                 }
 23
                  if(count>max)
 24 -
 25
                       max=count;
                       c=s[i];
 27
            }
 28
 29
 30
           printf("%c",c);
```

7)Print the given string without alphabets eg: Input:Lenova123@#45 Output:123@#45

```
1 #include <stdio.h>
                                                                           /tmp/dpzJd7tcBj.o
 2 #include<string.h>
                                                                           lenova@1233#bsmdh00
 3 * int main() {
                                                                           @1233#00
     char s[100],c;
      fgets(s,100,stdin);
                                                                           === Code Execution Successful =====
     s[strcspn(s,"\n")]='\0';
 6
       int n=strlen(s);
 7
       for(int i=0;i<n;i++)</pre>
 8
 9 +
10
            if((s[i]>='a' && s[i]<='z')||(s[i]>='A' && s[i]<='Z'))
11
              continue;
12
           else
              printf("%c",s[i]);
13
14
15 }
```

8)Print the first non-repeating char in the string.

```
1 #include <stdio.h>
                                                                                                     /tmp/UeZxbk5sH7.o
2 #include<string.h>
                                                                                                    jjaamm
3 - int main() {
                                                                                                     Not found
      char s[100],c;
       fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
5
                                                                                                    === Code Execution Successful ===
7 int n=strlen(s),count=1;
 8 for(int i=0;i<n;i++)
9 * {
       count=1;
10
           if(s[i]!='\0')
11
12 -
13
               for(int j=i+1;j<n;j++)
14 -
15
                  if(s[i]==s[j])
16 -
                  {
17
                      count++;
18
                     s[j]='\0';
19
20
21
          if(count==1)
22 +
                  printf("%c",s[i]);
23
24
                  return 0;
25
27
         printf("Not found");
28
29 }
```

9)Replace space with %20

10)Replace character with input character

```
1 #include <stdio.h>
                                                                                                                                                /tmp/4y4tXsMwTP.o
  2 #include<string.h>
                                                                                                                                                hii hello
  3 - int main() {
                                                                                                                                                1
4 char s[100];
       cnar s[100J];
fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
char c,r;
scanf(" %c",&c);
scanf(" %c",&r);
int n=strlen(s);
for(int i=0;i<n;i++)
{</pre>
                                                                                                                                                hii heuuo
                                                                                                                                                === Code Execution Successful ===
  8
  9
 10
 11
 12 -
 13
                      if(s[i]==c)
 14 -
                     {
 15
                           s[i]=r;
 16
 17
             printf("%s",s);
 18
 19 }
```

11)reverse the word in string output: i am good input: good am i

12)input: 3 [apple,mango.orange] output: 5 (second maximum length)

```
1 #include <stdio.h>
                                                                                                           /tmp/f2IRpOyAWl.o
 2 #include<string.h>
3 - int main() {
                                                                                                           hii
4 int n;
5 scanf("%d",&n);
                                                                                                           hii
                                                                                                           hii
 6 getchar()!='\n';
7    char s[200][200];
8    int first=0;
                                                                                                           === Code Execution Successful ===
9    int second=0;
10    for(int i=0;i
      for(int i=0;i<n;i++)
11+ {
       fgets(s[i],100,stdin);
12
          s[i][strcspn(s[i],"\n")]='\0';
13
14 }
15
      for(int i=0;i<n;i++)
16 - {
17
          int len=strlen(s[i]);
18
          if(len>first)
19 -
20
             second=first:
21
             first=len;
22
        else if(len>second && len<first)
23
24
            second=len;
25 }
26 if(second==0)
27 - {
           printf("%d",0);
28
29
          return 0;
30
31
     printf("%d", second);
```

13) Duplicate (output: Hello input: Helo)

```
/tmp/M2ruqlCEpA.o
1 #include <stdio.h>
2 #include<string.h>
                                                                                                         momo
3 - int main() {
       char s[100];
    fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
5
                                                                                                         === Code Execution Successful ===
7 int n=strlen(s);
      for(int i=0;i<n;i++)
 8
9 +
           if(s[i]!='\0')
10
11 +
12
                for(int j=i+1;j<n;j++)
13 +
14
                   if(s[i]==s[j])
                      s[j]='\0';
16
17
                printf("%c",s[i]);
18
19
20 }
```

14)Replace space with special characters input: hello world & output:hello&world

15) Remove vowels and print

16)Print the unique characters

```
1 #include <stdio.h>
                                                                                                                            /tmp/nDM7JXatkg.o
 2 #include<string.h>
                                                                                                                            KanigAsree
 3 #include<ctype.h>
                                                                                                                            knigsr
 4 - int main() {
 5 char s[100];
                                                                                                                            === Code Execution Successful ==
fgets(s,100,stdin);
fgets(s,100,stdin);
fs[strcspn(s,"\n")]='\0';
int n=strlen(s),count;
for(int i=0;i<n;i++)

10 {</pre>
11
     count=1;
if(s[i]!='\0')
               count=1:
12
13 · {
14
                      s[i]=tolower(s[i]);
                      for(int j=i+1;j<n;j++)</pre>
15
16 +
17
                          if(s[i]==tolower(s[j]))
                               s[j]='\0';
 19
20
                              count++;
21
                     if(count==1)
                     printf("%c",s[i]);
27
28 }
```

17) Print consecutive repeated characters

```
1 #include <stdio.h>
                                                                                                       /tmp/ABmLvt8QEL.o
2 #include<string.h>
                                                                                                       hello hiii
3 #include<ctype.h>
                                                                                                       1=>2
4 * int main() {
5 char s[100];
    fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
int n=strlen(s),count;
                                                                                                       === Code Execution Successful ===
       9
10 -
11
           while(i<n-1 && s[i]==s[i+1])
12
13 +
           count++;
14
15
              1++;
16
       if(count>1)
17
               printf("%c=>%d\n",s[i],count);
19
20
21
22 }
```

```
1 #include <stdio.h>
                                                                                                                /tmp/ilWb3I5upA.o
2 #include<string.h>
                                                                                                                hii hello
3 - int main() {
4 char s[100];
5 fgets(s,100,stdin);
                                                                                                                hii helao
    s[strcspn(s,"\n")]='\0';
char c,r;
                                                                                                                === Code Execution Successful ===
8     scanf(" %c",&c);
9     scanf(" %c",&r);
10     int n=strlen(s)-1,index=-1;
11
      for(int i=0;i<n;i++)
11 101
13
          if(s[i]==c)
14 -
       {
}
15
              index=i;
16
17
18 if(index!=-1)
19 - {
20
           s[index]=r;
21
22 printf("%s",s);
23 }
```

19)Isomorphic string

```
1 #include <stdio.h>
                                                                                                              /tmp/oBigRHinfv.o
2 #include<string.h>
3 #include<ctype.h>
                                                                                                              title
4 - int main() {
                                                                                                              Isomorphic
5 char s1[100],s2[100];
    fgets(s1,100,stdin);
                                                                                                              === Code Execution Successful ===
    s1[strcspn(s1,"\n")]='\0';
fgets(s2,100,stdin);
    s2[strcspn(s2,"\n")]='\0';
int n1=strlen(s1),n2=strlen(s2);
11 if(n1!=n2)
12 - {
      printf("Not isomorphic");
return 0;
13
    }
int freq1[26]={0};
15
16
17
    int freq2[26]={0};
      for(int i=0;i<n1;i++)
19 + {
20
          s1[i]=tolower(s1[i]);
21
          s2[i]=tolower(s2[i]);
       if(freq1[s1[i]-'a']++!=freq2[s2[i]-'a']++)
23 -
               printf("Not isomorphic.");
24
25
              return 0;
28
      printf("Isomorphic");
29
```

```
1 #include <stdio.h>
                                                                                                         /tmp/ELIFJ4paan.o
2 #include<string.h>
                                                                                                         kanigasree
3 #include<ctype.h>
                                                                                                         eersaginak
4 - int main() {
                                                                                                         esgnk
     char s[100];
      fgets(s,100,stdin);
6
                                                                                                         === Code Execution Successful ===
      s[strcspn(s,"\n")]='\0';
 8
      int end=strlen(s)-1,start=0;
9
      char temp;
10
      while(start<end)
11 -
12
          temp=s[start];
          s[start]=s[end];
13
14
          s[end]=temp;
15
          start++;
16
          end--;
17
      printf("%s\n",s);
18
      for(int i=0;s[i]!='\0';i++)
19
20 +
21
          if(1%2!=0)
          printf("%c",s[i]);
22
23
24 }
```

21)Anagram

```
1 #include <stdio.h>
2 #include<string.h>
3 #include<ctype.h>
4 int main() {
                                                                                                                                                                                                                                                                        /tmp/W5rv34Irte.o
                                                                                                                                                                                                                                                                        listen
                                                                                                                                                                                                                                                                        Anagram
         int main() {
    char s1[100], s2[100];
    fgets(s1,100, stdin);
    s1[strcspn(s1,"\n")]='\0';
    fgets(s2,100, stdin);
    s2[strcspn(s2,"\n")]='\0';
    int n1=strlen(s1), n2=strlen(s2);
    int freq[[26]={0};
    if[s1]=0
                                                                                                                                                                                                                                                                        === Code Execution Successful ===
12
13 *
           if(n1!=n2)
14
15
                    printf("Not anagram");
                    return 0;
16
17
             for(int i=0;s1[i]!='\0';i++)
18 ÷
19
20
21
22
23 ÷
                   s1[i]=tolower(s1[i]);
freq1[s1[i]-'a']++;
                for(int i=0;s2[i]!='\0';i++)
24
25
                   s2[i]=tolower(s2[i]);
freq1[s2[i]-'a']--;
26
27
             for(int i=0;i<26;i++)
28 -
29
30 -
31
32
                  if(freq1[i]!=0)
                          printf("Not anagram");
                          return 0;
33
34
35 printf("Anagram");
36 }
```

22)Pangram

```
1 #include <stdio.h>
                                                                                                         /tmp/XWJ1Xz1jdE.o
2 #include<string.h>
                                                                                                         the quick brown fox jumps over a lazy dog
3 #include<ctype.h>
4 - int main() {
5 char s[100];
                                                                                                         === Code Execution Successful ===
      fgets(s,100,stdin);
    s[strcspn(s,"\n")]='\0';
      int freq[26]={0};
      for(int i=0;s[i]!='\0';i++)
10 -
11
          s[i]=tolower(s[i]);
          freq[s[i]-'a']++;
12
13
14
      for(int i=0;i<26;i++)
15 +
16
          if(freq[i]==0)
17 -
              printf("Not pangram");
18
19
              return 0;
20
21
      printf("Pangram");
22
23 }
```

23)REMOVE A WORD [INPUT: THIS IS MY FRIEND IS OUTPUT: THIS MY FRIEND]

```
1 #include <stdio.h>
                                                                                                                            /tmp/GbxZYozKq2.o
2 #include<string.h>
                                                                                                                            the programming language
3 #include<ctype.h>
                                                                                                                            programming
4 - int main() {
                                                                                                                            the language
5 char s[100];
      fgets(s,100,stdin);
                                                                                                                             === Code Execution Successful ===
     s[strcspn(s,"\n")]='\0';
      char word[100];
     fgets(word,100,stdin);
word[strcspn(word,"\n")]='\0';
10
      int n=strlen(s),wordlen=strlen(word),j;
11
      for(int i=0;i<n;i++)
12
13 +
         if(s[i]==word[0])
15 +
16
17
              int index=0;
              int found=1;
              while(word[index]!='\0')
18
19 +
                  if(s[i+index]!=word[index])
20
                     found=0;
23
                   break;
24
25
                  index++;
26
              if((found==1) && (i==0 || s[i-1]==' ')&& (i+wordlen==n || s[i+wordlen]==' '))
28 -
29
                for(int k=i;k<=n-wordlen;k++)</pre>
30 +
31
                       s[k]=s[k+wordlen];
32
                 n-=wordlen;
33
                i--;
38
      printf("%s",s);
```

24)Title case

input: i am dOiNG greaT otput: I Am Doing Great

```
1 #include <stdio.h>
                                                                                                         /tmp/sYl9m2bs7Y.o
 2 #include<string.h>
                                                                                                         i aM doinG greaT
3 #include<ctype.h>
                                                                                                         I Am Doing Great
 4 * int main() {
5 char s[100];
6 fgets(s,100,stdin);
7 s[strcspn(s,"\n")]='\0';
                                                                                                         === Code Execution Successful ===
 8 int n=strlen(s);
9 | s[0]=toupper(s[0]);
10 | for(int i=1;i<n;i++)
11 - {
      if(s[i-1]==' ')
12
      {
    s[i]=toupper(s[i]);
13 +
14
15
16 else
17 s[i]=tolower(s[i]);
18 }
19 printf("%s",s);
20 }
21
```

25) PRINT THE SUM OF DIGITS IN A STRING AND REVERSE IT.

```
1 #include <stdio.h>
                                                                                              /tmp/DxOAKXKTZh.o
2 #include<string.h>
                                                                                              hii5555iamkani7
3 #include<ctype.h>
                                                                                              72
4 * int main() {
5 char s[100];
                                                                                              === Code Execution Successful ===
    fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
6
    int n=strlen(s),sum=0;
8
    for(int i=0;i<n;i++)
10 ₹ {
      if(isdigit(s[i]))
11
12 -
13
             sum+=s[i]-'0';
14
15
   }
16
     int rem=0,rev=0;
17 while(sum>0)
18 ₹ {
      rem=sum%10;
rev=rev*10+rem;
19
20
21
         sum/=10;
23 printf("%d",rev);
24 }
25
```

26)Count of first occurence of a character

```
/tmp/OuFzmX19TQ.o
 2 #include<string.h>
                                                                                                i am kani
 3 #include<ctype.h>
 4 * int main() {
 5 char s[100];
 6    fgets(s,100,stdin);
7    s[strcspn(s,"\n")]='\0';
                                                                                                === Code Execution Successful ===
 8 char c;
 9    scanf(" %c",&c);
10    c=tolower(c);
10  c=tolower(c);
11  int n=strlen(s);
 12 for(int i=0;i<n;i++)
13 ₹ {
18
               return 0;
20 }
21
      printf("Not found");
```

27)Toggle Case:

Input 1:

BelleVE yourSELF

Output 1:

bELiEve YOURself

```
1 #include <stdio.h>
                                                                                     /tmp/DvUaW5m3Pk.o
                                                                                    BelIeVE yourSELF
2 #include<string.h>
3 #include<ctype.h>
                                                                                    bELiEve YOURself
4 * int main() {
5 char s[100];
                                                                                     === Code Execution Successful ==
 6 fgets(s,100,stdin);
7    s[strcspn(s,"\n")]='\0';
8    int n=strlen(s);
9 for(int i=0;i<n;i++)
10 * {
s[i]=tolower(s[i]);
12
13 else if(s[i]>='a' && s[i]<='z')
14 s[i]=toupper(s[i]);
15 }
16 printf("%s",s);
```

28)Count the number of alphabets in the string. Then find the count is prime number or even or odd:

Input 1:

Rain fall, earth drinks

Output 1:

19

19 is a prime number.

Input 2:

peace settles

Output 2:

12 is even.

```
1 #include <stdio.h>
                                                                                            /tmp/CWUTKynNZ3.o
2 #include<string.h>
                                                                                            asdfghfsg
3 #include<ctype.h>
                                                                                            9 is odd
4 * int main() {
5
    char s[100];
                                                                                             === Code Execution Successful ===
6
    fgets(s,100,stdin);
7
     s[strcspn(s,"\n")]='\0';
     int n=strlen(s),count=0;
8
9
     for(int i=0;i<n;i++)
10 ₹ {
11
          s[i]=tolower(s[i]);
         if(s[i]>='a' && s[i]<='z')
12
13
             count++;
14
15
      int flag=1;
16
      for(int i=2;i<=count/2;i++)</pre>
17 -
18
         if(count%i==0)
19 +
         {
20
              flag=0;
21
              break;
22
23
     }
24
     if(flag==1)
      printf("%d is a prime number",count);
25
26 else if(count%2==0)
27
     printf("%d is even",count);
28
    else if(count%2!=0)
29
      printf("%d is odd",count);
30 }
```

30)find the longest substring palindrome(input1:Efficient output1:ici)

```
1 #include <stdio.h>
                                                                                                                                                                                                                                                                                                 /tmp/lE994WLReh.o
  2 #include<string.h>
3 #include<ctype.h>
4 int palin(int start,int end,char s[])
5-{
                                                                                                                                                                                                                                                                                                 speeeddetection
edde
                                                                                                                                                                                                                                                                                                 === Code Execution Successful ==:
                  while(start<end)
                         if(s[start]!=s[end])
                       {
return 0;
}
10 | r

11 | }

12 | start

13 | end--

14 | }

15 | return 1;

16 | }

17 int main() {

18 | char s[100]

19 | fgets(s,10)

20 | s[strcspn(

21 | int n=strl

22 | int i=0,nu

23 | char max_p

24 | while(1=n)

25 - {

26 | for(int)

27 - {

28 | if

29 - {

30 | {
                         start++;
                  return 1:
             nc main() {
    char s[100];
    fgets(s,100,stdin);
    s[strcspn(s,"\n")]='\0';
    int n=strlen(s);
    int i=0,num=0,max=0;
    char max_palin[100]={0};
    while(i=0,max=0);
}
              while(i<n)
                       for(int j=i;j<n;j++)
                               if(palin(i,j,s))
                                       num=j-i+1;
                                           strncpy(max_palin,s+i,max);
                                       max_palin[max]='\0';
                      1++;
             printf("%s",max_palin);
```

31)SUM OF THE NUMBER IN THE STRING INPUT:HELLO I AM 123? HOW ARE YOU 45 DONE JOB. SUM=123+45,OUPUT=168

```
1 #include <stdio.h>
                                                                                                /tmp/0aXbzAZt0p.o
                                                                                                hii12345jdg35
 2 #include<string.h>
                                                                                                12380
 3 #include<ctype.h>
 4 * int main() {
     char s[100];
                                                                                                === Code Execution Successful ===
    fgets(s,100,stdin);
 7  s[strcspn(s,"\n")]='\0';
8  int n=strlen(s),res=0;
      char ans[100]={0};
10 for(int i=0;i<n;i++)
11 * {
12
          int index=0;
       while(isdigit(s[i]))
13
14 -
15
             ans[index]=s[i];
16
17
             index++;
18 }
19 ans[index]='\0';
20 int j=0,num=0;
21
       while(ans[j]!='\0')
22 -
              num=num*10+(ans[j]-'0');
23
24
       }
25
26
        res+=num;
27
28
      printf("%d",res);
29 }
```

32)Extract the number from the string

```
1 #include <stdio.h>
                                                                                              /tmp/qUxUZVDfvs.o
 2 #include<string.h>
                                                                                             h000j1k6g7
                                                                                             000
 3 #include<ctype.h>
 4 * int main() {
                                                                                             1
 5 char s[100];
                                                                                             6
 6 fgets(s,100,stdin);
    s[strcspn(s,"\n")]='\0';
int n=strlen(s),res=0;
 8
     char ans[100]={0};
                                                                                             === Code Execution Successful ===
10
     for(int i=0;i<n;i++)
11 -
       int index=0;
12
      while(isdigit(s[i]))
13
14 -
15
            ans[index]=s[i];
16
17
           index++;
18
19
        ans[index]='\0';
       if(index>0)
20
21
       printf("%s\n",ans);
22
23 }
```

33)Swapping: INPUT:OpenAl OUTPUT:pOneIA

```
1 #include <stdio.h>
                                                                                                       /tmp/geb2cJ24da.o
 2 #include<string.h>
                                                                                                       OpenAI
 3 #include<ctype.h>
                                                                                                       pOneIA
 4 * int main() {
 5 char s[100];
                                                                                                       === Code Execution Successful
 6 fgets(s,100,stdin);
 7 s[strcspn(s,"\n")]='\0';
8 int n=strlen(s);
9 char temp;
 10 for(int i=1;i<n;i+=2)
 11 - {
     temp=s[i];
s[i]=s[i-1];
s[i-1]=temp;
 12
 13
 14
 15 }
16 printf("%s",s);
17 }
 18
```

35)90 degree rotation

input:

ABC

DEF

GHI

output:

GD A

HE B

I F C

```
1 #include <stdio.h>
                                                                                                   /tmp/SEtHiE79JV.o
2 #include<string.h>
3 * int main() {
                                                                                                   a b c d
                                                                                                   e f g h
4 int n;
5 scanf("%d",&n);
                                                                                                   i j k l
6    getchar()!='\n';
7    char s[n][n];
                                                                                                   mnop
                                                                                                   miea
    for(int i=0;i<n;i++)
                                                                                                   n j f b
8
    for(int j=0;j<n;j++)
{
    scanf(" %r" p-r*-</pre>
                                                                                                   okgc
10
                                                                                                   plhd
11 -
              scanf(" %c",&s[i][j]);
12
13
                                                                                                    === Code Execution Successful ===
14 }
    for(int i=0;i<n;i++)
{</pre>
15
16 =
          for(int j=n-1;j>=0;j--)
17
18 -
       printf("%c ",s[j][i]);
}
19
20
          printf("\n");
21
```

36) Remove leading zeros and check if the strings are equal, lesser or greater.

```
1 #include <stdio.h>
                                                                                                          /tmp/cpKRcNI496.o
2 #include<string.h>
                                                                                                         0000.200
3 - int main() {
                                                                                                         00.20
                                                                                                         0000.200 and 00.20 are greater
      char s1[100];
      fgets(s1,100,stdin);
     s1[strcspn(s1,"\n")]='\0';
                                                                                                         === Code Execution Successful ===
      char s2[100];
      fgets(s2,100,stdin);
    s2[strcspn(s2,"\n")]='\0';
      int i=0,j=0,n1=strlen(s1),n2=strlen(s2);
      printf("%s and %s are ",s1,s2);
11
    while (s1[i] == '0')
12
13
         1++;
      if (i > 0)
15
          strcpy(s1, &s1[i]);
16
      while (s2[j] == '0')
17
         j++;
18
      if (j > 0)
          strcpy(s2, &s2[j]);
19
20
    int res=strcmp(s1,s2);
     if(res==0)
  printf(" equal");
else if (res>0)
22
23
24
          printf(" greater");
     else if(res<0)
26
      printf(" lesser");
27 }
```

37) Delete repeated words

```
#include <stdio.h>
#include<string.h>
int main() {
  char s[100];
  fgets(s,100,stdin);
  s[strcspn(s,"\n")]='\0';
  int n=strlen(s),end=n-1,start=0,found=1;
  char word[100];
  for(int i=0;i<n;i++)
     if(s[i]=='')
       end=i-1;
       int index=0;
       for(int j=start;j<=end;j++)
          word[index]=s[j];
          index++;
       start=end+2;
       word[index]='\0';
       for(int k=end+2;s[k]!='\0';k++)
          if(s[k]==word[0] && (s[k+strlen(word)]==' ' || k+strlen(word)==n) && (s[k-1]==' '|| k==0))
```

```
{
    int found=1;
    int index=0;
    for(int l=k;word[index]!="\0';l++)
    {
        if(s[l]!=word[index])
        {
            found=0;
            break;
        }
        index++;
    }

    if(found==1)
    {
        for(int m=k;m<=n-strlen(word);m++)
        {
            s[m]=s[m+strlen(word)];
        }
        n-=strlen(word);
    }
    }
    printf("%s",s);
}</pre>
```

```
jamuna is a cute girl and good girl
jamuna is a cute girl and good
=== Code Execution Successful ===
```

38) railway timing



39)Reverse a word in string! (Input: Hello World, || Output: olleH dlorW)

```
1 #include <stdio.h>
                                                                                         /tmp/cS8c5MEOsx.o
 2 #include<string.h>
                                                                                        helllo world
 3 * int main() {
                                                                                        ollleh dlrow
     char s[100];
      fgets(s,100,stdin);
                                                                                        === Code Execution Successful ===
    s[strcspn(s,"\n")]='\0';
      char rev[100]={0};
 8
      int n=strlen(s),end,start=0,index=0;
 9
      for(int i=0;i<n;i++)
10 - {
      while(s[i]!=' ' && i!=n)
11
13
              1++;
15
        end=i-1;
16
          for(int k=end;k>=start;k--)
17 -
           rev[index]=s[k];
19
           index++;
20
        rev[index]=' ';
21
22
        index++;
23
         start=i+1;
24
25
      printf("%s",rev);
```

40)Find the largest and smallest word in a string. Input: The bottle is full Output: is bottle

```
1 #include <stdio.h>
                                                                                /tmp/bcWMVtlIz2.o
 2 #include<string.h>
                                                                                jamuna is a bad girl
 3 - int main() {
                                                                                a jamuna
    char s[100];
   fgets(s,100,stdin);
                                                                                === Code Execution Successful ===
6 s[strcspn(s,"\n")]='\0';
7 int n=strlen(s),min=100,max=0;
8 char mini[100]={0},maxi[100]={0};
     for(int i=0;i<n;i++)
10 - {
13 - {
25
26
}
28 i+=count;
29 }
    printf("%s %s",mini,maxi);
30
```

41)Find the largest number length in the given sentence. Input :- 4(range of words) This question is easy. Output:- 8(length of the largest word)

```
1 #include <stdio.h>
                                                                                                          /tmp/Vpt1zKzlgB.o
 2 #include<string.h>
                                                                                                          ianani iamuna kanigasree karthikaa
3 - int main() {
4 char s[100];
5 fgets(s,100,
      fgets(s,100,stdin);
                                                                                                           === Code Execution Successful ===
    s[strcspn(s,"\n")]='\0';
7 int n=strlen(s),max=0;
      for(int i=0;i<n;i++)
9 + {
      int count=0;
while(s[i+count]!=' ' && i+count!=n)
10
11
12 -
13
           count++;
14 }
15 if(count>max)
16 {
17
           max=count;
18
19
21
      printf("%d",max);
```

42) Smallest appeared character in a string

```
1 #include <stdio.h>
                                                                                                             /tmp/oDRukD14AR.o
 2 #include<string.h>
                                                                                                             abcdcba
 3 - int main() {
 4 char s[100];
     fgets(s,100,stdin);
s[strcspn(s,"\n")]='\0';
                                                                                                             === Code Execution Successful ===
     int n=strlen(s),min=100;
       int freq[256]={0};
      char c;
 10 for(int i=0;i<n;i++)
11 * {
        if(s[i]!=' ')
 13 +
 14
              freq[s[i]]++;
 15
 17
      for(int i=0;i<256;i++)
 18 - {
 19
           if(freq[i]!=0 && freq[i]<min)</pre>
 21
               min=freq[i];
               C=1:
 23
 24
25 printf("%c",c);
```

43) first occurrence of a word in a string Input string: I love programming! Input word to search: love Output 'love' is found at index 2.

```
1 #include <stdio.h>
                                                                                                              /tmp/H2qX10Quoy.o
2 #include<string.h>
                                                                                                                hii hello fine
3 - int main() {
                                                                                                                fine
4 char s[100],word[100];
                                                                                                                'fine' is found at index 10
5  fgets(s,100,stdin);
6  s[strcspn(s,"\n")]='\0';
7  fgets(word,100,stdin);
                                                                                                                === Code Execution Successful ===
    word[strcspn(word,"\n")]='\0';
int n=strlen(s);
8
    for(int i=0;i<n;i++)
11 + {
12
        if(s[i]==word[0])
13 -
14
               for(int k=0;word[k]!='\0';k++)
16 -
17
                   if(s[k+i]!=word[k])
18 -
20
                       break;
21
22
         if(found==1)
24 +
                  if((s[i+strlen(word)]==' '|| i+strlen(word)==n) &&(s[i-1]==' ' || i==0))
25
26 -
27
                       printf("'%s' is found at index %d",word,i);
                       return 0;
29
30
31
33 }
```

44)minimum length between two words in the string

```
#include <stdio.h>
#include<string.h>
int main() {
 int n;
 scanf("%d",&n);
 getchar()!='\n';
 char s[100][100];
 char word1[100],word2[100];
  for(int i=0;i<n;i++)
    fgets(s[i],100,stdin);
    s[i][strcspn(s[i],"\n")]='\0';
  fgets(word1,100,stdin);
 word1[strcspn(word1,"\n")]='\0';
 fgets(word2,100,stdin);
 word2[strcspn(word2,"\n")]='\0';
 int found1=0,found2=0,index1=-1,index2=-1;
  for(int i=0;i<n;i++)
    if(found1!=1)
      int found=0;
      if(strcmp(s[i],word1)==0)
         found1=1;
         index1=i;
    if(found2!=1)
      int found2=0;
      if(strcmp(s[i],word2)==0)
         found2=1;
         index2=i;
 if(index1!=-1 && index2!=-1)
    printf("%d",index2-index1);
 else
  {
    printf("one or both of the words are not found");
```

```
9
success
is
falling
nine
times
and
gett
up
ten
nine
up
4
```

45)Left rotation

46)right rotation

```
1 #include <stdio.h>
                                                                                    /tmp/USrACXz251.o
 2 #include<string.h>
3 - int main() {
                                                                                    geeksforgeeks
4 int n;
                                                                                    ksgeeksforgee
=== Code Execution Successful ===
11 char temp;
14 temp=s[len-1];
15 for(int j=len-1;j>=1;j--)
17
           s[j]=s[j-1];
18
   s[0]=temp;
19
20
    printf("%s",s);
```

47) valid time

```
1 #include <stdio.h>
                                                                                      /tmp/73z5wuWNLA.o
2 #include<string.h>
                                                                                      24:45:30
3 - int main() {
                                                                                      Invalid time
char time[9];
int hour,minutes,seconds;
scanf("%8s",time);
                                                                                      === Code Execution Successful ===
7 sscanf(time,"%d:%d:%d",&hour,&minutes,&seconds);
printf("%s",time);
10
11 }
12 else
13 prin
    printf("Invalid time");
14 }
```

VERSION CONTROL:

```
#include <stdio.h>
#include <string.h>
#define MAX 100

int main()
{
    char v1[MAX];
    fgets(v1,MAX,stdin);
    v1[strcspn(v1,"\n")]='\0';
    int I1=strlen(v1);
```

```
char v2[MAX];
fgets(v2,MAX,stdin);
v2[strcspn(v2,"\n")]='\0';
int I2=strlen(v2);
int x1=0, x2=0;
for(int i=0;v1[i]!='\0';i++)
{
  if(v1[i]!='.')
     x1=(x1*10)+(v1[i]-'0');
}
for(int i=0;v2[i]!='\0';i++)
  if(v2[i]!='.')
     x2=(x2*10)+(v2[i]-'0');
}
if(x1>x2)
{
  printf("%s greater than %s",v1,v2);
}
else
  if(x2>x1)
  {
     printf("%s is greater than %s",v2,v1);
  }
  else
     if(x1==x2)
     {
```

```
printf("%s is equal to %s",v1,v2);
}
}
}
```