# String all question solution

**Ques 1: Comparision of two strings using built in function**

```
#include <stdio.h>
void main()
{
char str[50],dup[50];
int cmp;
gets(str);
gets(dup);
cmp=strcmp(str,dup);
if(cmp==0)
{
printf("both are equal");
}
else if(cmp==-1)
printf("Both are unequal as first string is samller than second string");
else
printf("both ar unequal asfirst string is greater than second string");
}
```

**Ques 2 WAP To check length of string using built in functions.**

```
#include <stdio.h>
void main()
{
char str[50];
int len;
gets(str);
len=strlen(str);
printf("\n the length of string is : %d",len);
}
```

**Ques 3: WAP To copy one string to another using built in functions.**

```
#include <stdio.h>
void main()
{
char str[50],dup[50];
gets(str);
strcpy(dup,str);
```

```
printf("\n the string after copy: %s",dup);
}
```

Ques 4: WAP To convert lower case letter into upper case using built in functions.

```
#include <stdio.h>
void main()
{
char str[50];
gets(str);
strupr(str);
printf("\n string after conversion of lower case case letter into upper case is : %s",str);
}
```

**Ques 5: WAP To convert upper case letter into lower case using built in functions.**

```
#include <stdio.h>
void main()
{
char str[50];
gets(str);
strlwr(str);
printf("\n string after conversion of upper case case letter into lower case is : %s",str);
}
```

**Ques 6: WAP To reverse the string using built in functions.**

```
#include <stdio.h>
void main()
{
char str[50];
gets(str);
strrev(str);
printf("\n the reverse of string is : %s",str);
}
```

**Ques 7: concatenation of two strings using built in function**

```
#include <stdio.h>
void main()
{
char str[50],dup[50];
int cmp;
```

```
gets(str);
gets(dup);
strcat(str,dup);
printf("\n first string is : %s",str);
printf("\n second string is : %s",str);
printf("\n string after concatenate is : %s",str);
}
```

**Ques 8: WAP to toggled case characters i.e upper to lower lower to upper**

```
#include <stdio.h>
void main()
{
char str[500];
int len;
printf("Enter any string: ");
gets(str);
while(str[len] != '\0')
{
if(str[len]>='a' && str[len]<='z') { str[len] = str[len] – 32; } else if(str[len]>='A' &&
str[len]<='Z')
{
str[len] = str[len] + 32;
}
            len++;
        }
printf("String after toggling case: %s", str);
}
```

**Ques 9: WAP program to count total number of alphabets, digits and special characters in a string**

```
#include <stdio.h>
void main()
{
char str[500];
int alphabets, digits, others, index;
          alphabets = digits = others = index = 0;
           /* Input string from user */
          printf("Enter any string : ");
          gets(str);
           /*
           * Check each character of string for alphabet, digit or special character
```

```
        */
        while(str[index]!='\0')
        {
           if((str[index]>='a' && str[index]<='z') || (str[index]>='A' && str[index]<='Z'))
           {
              alphabets++;
           }
           else if(str[index]>='0' && str[index]<='9')
           {
              digits++;
           }
           else
           {
              others++;
           }

           index++;
        }

        printf("Alphabets = %d\n", alphabets);
        printf("Digits = %d\n", digits);
        printf("Special characters = %d", others);
}
```

**Ques 10: WAP program to count total number of vowel or consonant in a string**

```
#include <stdio.h>
void main()
{
char str[500];
int index, len, vowel, consonant;
        /* Input string from user */
        printf("Enter any string: ");
        gets(str);

        vowel = 0;
        consonant = 0;
        len = strlen(str);

        for(index=0; index<len; index++)
        {
```

```
        if((str[index]>='a' && str[index]<='z') || (str[index]>='A' && str[index]<='Z'))
        {

            // If the current character(str[i]) is a vowel

           if(str[index] =='a' || str[index]=='e' || str[index]=='i' || str[index]=='o' || str[index]=
             str[index] =='A' || str[index]=='E' || str[index]=='I' || str[index]=='O' || str[index]=
              vowel++;
           else
              consonant++;
        }
      }

      printf("Total number of vowel = %d\n", vowel);
      printf("Total number of consonant = %d\n", consonant);
}
```

**Ques 11: WAP program to count total number of words in a string**

```
#include <stdio.h>
void main()
{
char str[500];
int index, words;
      /* Input string from user */
      printf("Enter any string: ");
      gets(str);

      index = 0;
      words = 1;

      /* Runs a loop till end of string */
      while(str[index] != '\0')
      {
        /* If the current character(str[index]) is white space */
        if(str[index]==' ' || str[index]=='\n' || str[index]=='\t')
        {
          words++;
        }

        index++;
```

```
        }

        printf("Total number of words = %d", words);
}
```

**Ques 12: WAP program to reverse order of words in a string**

```
#include <stdio.h>
void main()
{
char str[500], reverse[500];
int len, i, index, wordStart, wordEnd;
        printf("Enter any string: ");
        gets(str);

        len   = strlen(str);
        index = 0;

        // Start checking of words from the end of string
        wordStart = len - 1;
        wordEnd   = len - 1;

        while(wordStart > 0)
        {
           // If a word is found
           if(str[wordStart] == ' ')
           {
              // Add the word to the reverse string
              i = wordStart + 1;
              while(i <= wordEnd)
              {
                 reverse[index] = str[i];

                 i++;
                 index++;
              }
              reverse[index++] = ' ';

              wordEnd = wordStart - 1;
           }
```

```
        wordStart--;
    }

    // Finally add the last word
    for(i=0; i<=wordEnd; i++)
    {
        reverse[index] = str[i];
        index++;
    }

    // Add NULL character at the end of reverse string
    reverse[index] = '\0';

    printf("Original string \n%s\n\n", str);
    printf("Reverse ordered words \n%s", reverse);
}
```

**Ques 13: C program to find last occurrence of a character in string**

```
#include <stdio.h>
void main()
{
char str[500];
char toFind;
int index=-1,len=0;
printf(“Enter any string: “);
gets(str);
printf(“Enter any character to find: “);
toFind = getchar();
while(str[len] != ‘\0’)
{
// Update index if match is found
if(str[len] == toFind)
{
index = len;
}
len++;
}
printf(“\nLast index of ‘%c’ is %d”, toFind, index);
```

```
}
```

**Ques 14: C program to count all occurrences of a character in a given string**

```
#include <stdio.h>
void main()
{
char str[500];
char toSearch;
int index, count;
        /* Input string and search character from user */
        printf("Enter any string: ");
        gets(str);
        printf("Enter any character to search: ");
        toSearch = getchar();

        count = 0;
        index=0;
        while(str[index] != '\0')
        {
           /*
            * If character is found in string then
            * increment count variable
            */
           if(str[index] == toSearch)
           {
              count++;
           }

           index++;
        }

        printf("Total occurrence of '%c' = %d", toSearch, count);
}
```

**Ques 15: WAP to count number of characters in a string**

```
#include <stdio.h>
void main()
{
char add[100];
```

```
int len, count=0;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
for(len=0;add[len]!='\0';len++)
{
count++;
}
printf("\n the total charcaters in the string is : %d",count);
}
```

**Ques 16: WAP to merge to strings in a string**

```
#include <stdio.h>
void main()
{
char fname[100],sname[100];
int len, count=0,len2;
printf("Enter your first name:\t");
gets(fname);
printf("Enter your surname :\t");
gets(sname);
for(len=0;fname[len]!='\0';len++)
{
count++;
}
for(len2=0;sname[len2]!='\0';len2++)
{
fname[len]=sname[len2];
len++;
}
fname[len]='\0';
printf("\nString after concatenate are: %s",fname);
}
```

**Ques 17 WAP to copy an string in another string**

```
#include <stdio.h>
void main()
{
```

```
char add[100],dup[100];
int len;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
for(len=0;add[len]!='\0';len++)
{
dup[len]=add[len];
}
dup[len]='\0';
printf("\n the string after copy is : %s",dup);
}
```

**Ques 18 WAP to convert lower case letter into upper case in a string**

```
#include <stdio.h>
void main()
{
char add[100];
int len;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
for(len=0;add[len]!='\0';len++)
{
if(add[len]>='a' && add[len]<='z')
{
add[len]=add[len]-32;
}
}
printf("\n Inputted String after conversion : %s",add);
}
```

**Ques 19: WAP to print a string in reverse order by holding in another string.**

```
#include <stdio.h>
void main()
{
char add[100],dup[100];
```

```
int len=0,le=0;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
while(add[len]!='\0')
{
len++;
}
for(len=len-1;len>=0;len–)
{
dup[le]=add[len];
le++;
}
dup[le]='\0';
printf("\n %s",dup);
}
```

**Ques 20:WAP to serach a character in string**

```
#include <stdio.h>
void main()
{
char add[100],search;
int len,found=0;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
printf("Enter the character you want to search:\t");
scanf("%c",&search);
for(len=0;add[len]!='\0';len++)
{
if(add[len]==search)
{
found++;
break;
}
}
if (found==1)
```

```
printf("\n Match found");
else
printf("match not found");
}
```
**Ques 21 WAP to convert upper case letter into lower case in a string**

```
#include <stdio.h>
void main()
{
char add[100];
int len;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
for(len=0;add[len]!='\0';len++)
{
if(add[len]>='A' && add[len]<='Z')
{
add[len]=add[len]+32;
}
}
printf("\n Inputted String after conversion : %s",add);
}
```
**Ques 22:WAP to check a string is palindrome or not**

```
#include <stdio.h>
void main()
{
char str[50],str2[50];
int i=0,j=0;
printf("\nEnter any string: ");
gets(str);
while(str[i]!='\0')
{
i++;
}
printf("\n Check Size:%d\n",i);
for(i=i-1;i>=0;i–)
{
str2[j]=str[i];
```

```
j++;
}
str2[j]='\0';
printf("%s",str);
//printf("Reversed string:%s",str2);
for(i=0;str[i]!='\0';i++)
{
1       if(str[i]!=str2[i])
2           break;
}
if(str[i]=='\0' )
printf("\nPALINDRONE STRING");
else
printf("\nNOT PALINDRONE");
}
```

**Ques 23: WAP to replace a search character in string with another letter in a string**

```
#include <stdio.h>
void main()
{
char add[100],search,rep;
int len;
printf("Enter your address:\t");
gets(add);
printf("Entered address is:\t");
puts(add);
printf("Enter the character you want to search:\t");
scanf("%c",&search);
printf("Enter the character you want to replace with:\t");
scanf("%*c%c",&rep);
for(len=0;add[len]!='\0';len++)
{
if(add[len]==search)
{
add[len]=rep;
1       }
}
printf("\n String after replacing that character: %s",add);
}
```

**Ques 24 Write a program in C to input a string and print it**

```
#include <stdio.h>
#include <stdlib.h>
void main()
{
   char str[50];

   printf("\n\nAccept a string from keyboard :\n");
   printf("-----------------------------------\n");
   printf("Input the string : ");
   fgets(str, sizeof str, stdin);
   printf("The string you entered is : %s\n", str);
}
```

**Ques 25. Write a program in C to find the length of a string without using library function.**

```
#include <stdio.h>
#include <stdlib.h>
void main()
{
   char str[100]; /* Declares a string of size 100 */
   int l= 0;

      printf("\n\nFind the length of a string :\n");
      printf("--------------------------------\n");
      printf("Input the string : ");
      fgets(str, sizeof str, stdin);
   while(str[l]!='\0')
   {
      l++;
   }
   printf("Length of the string is : %d\n\n", l-1);
}
```

**Ques 26. Write a program in C to separate the individual characters from a string.**

```
#include <stdio.h>
#include <stdlib.h>
```

```
void main()
{
   char str[100]; /* Declares a string of size 100 */
   int l= 0;

      printf("\n\nSeparate the individual characters from a string :\n");
      printf("-------------------------------------------------\n");
      printf("Input the string : ");
      fgets(str, sizeof str, stdin);
            printf("The characters of the string are : \n");
   while(str[l]!='\0')
   {
      printf("%c  ", str[l]);
      l++;
   }
   printf("\n");
}
```

**Ques 27. Write a program in C to print individual characters of string in reverse order.**

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
void main()
{
   char str[100]; /* Declares a string of size 100 */
   int l,i;

      printf("\n\nPrint individual characters of string in reverse order :\n");
      printf("-------------------------------------------------\n");
      printf("Input the string : ");
      fgets(str, sizeof str, stdin);
            l=strlen(str);
            printf("The characters of the string in reverse are : \n");
      for(i=l;i>=0;i--)
       {
         printf("%c  ", str[i]);
       }
   printf("\n");
}
```

**Ques 28. Write a program in C to count the total number of words in a string.**

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#define str_size 100 //Declare the maximum size of the string
void main()
{
   char str[str_size];
   int i, wrd;

      printf("\n\nCount the total number of words in a string :\n");
      printf("-----------------------------------------------------\n");
      printf("Input the string : ");
      fgets(str, sizeof str, stdin);

   i = 0;
   wrd = 1;

   /* loop till end of string */
   while(str[i]!='\0')
   {
      /* check whether the current character is white space or new line or tab
character*/
      if(str[i]==' ' || str[i]=='\n' || str[i]=='\t')
      {
         wrd++;
      }

      i++;
   }

   printf("Total number of words in the string is : %d\n", wrd-1);
}
```

**Ques 29. Write a program in C to compare the length of two strings without using string library functions.**

```
#include <stdio.h>
#define str_size 100 //Declare the maximum size of the string
int main()
{
```

```
    char str1[str_size], str2[str_size];
    int flg=0;

    printf("\nCheck the length of two strings:");
    printf("\n--------------------------------");
    printf("\nInput the 1st string : ");
    fgets(str1, sizeof str1, stdin);

    printf("Input the 2nd string : ");
    fgets(str2, sizeof str2, stdin);
    int i=1;
    printf("\nString1: %s", str1);
    printf("String2: %s", str2);
          /* Runs till both strings are equal */
    while(str1[i] == str2[i])
    {
       if(str1[i] == '\0' && str2[i] == '\0')
          break;
       i++;
    }
    if((str1[i+1] == '\0') && (str2[i+1]=='\0'))
       flg=0;
    else if ((str1[i+1] != '\0') && (str2[i+1]=='\0'))
       flg=1;
    else flg=2;
    if(flg == 0)
    {
       printf("\nThe length of both strings are equal.\n");
    }
    else if(flg == 1)
    {
      printf("\nThe length of the first string is greater than the second string.\n\n");
    }
    else if(flg == 2)
    {
      printf("\nThe length of the second string is greater than the first string.\n\n");
    }
    return 0;
}
```

**Ques 30. Write a program in C to count total number of alphabets, digits and special characters in a string.**

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#define str_size 100 //Declare the maximum size of the string
void main()
{
   char str[str_size];
   int alp, digit, splch, i;
   alp = digit = splch = i = 0;


     printf("\n\nCount total number of alphabets, digits and special characters :\n");
     printf("----------------------------------------------------------------\n");
     printf("Input the string : ");
     fgets(str, sizeof str, stdin);

    /* Checks each character of string*/

   while(str[i]!='\0')
   {
      if((str[i]>='a' && str[i]<='z') || (str[i]>='A' && str[i]<='Z'))
      {
         alp++;
      }
      else if(str[i]>='0' && str[i]<='9')
      {
         digit++;
      }
      else
      {
         splch++;
      }

      i++;
   }

   printf("Number of Alphabets in the string is : %d\n", alp);
```

```
   printf("Number of Digits in the string is : %d\n", digit);
   printf("Number of Special characters in the string is : %d\n\n", splch);
}
```

**Ques 31. Write a program in C to find maximum occurring character in a string.**

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#define str_size 100 //Declare the maximum size of the string
#define chr_no 255 //Maximum number of characters to be allowed

void main()
{
   char str[str_size];
        int ch_fre[chr_no];
   int i = 0, max;
   int ascii;

     printf("\n\nFind maximum occurring character in a string :\n");
     printf("-------------------------------------------------\n");
     printf("Input the string : ");
     fgets(str, sizeof str, stdin);


   for(i=0; i<chr_no; i++)  //Set frequency of all characters to 0
   {
      ch_fre[i] = 0;
   }


   /* Read for frequency of each characters */
   i=0;
   while(str[i] != '\0')
   {
      ascii = (int)str[i];
      ch_fre[ascii] += 1;

      i++;
   }
```

```
   max = 0;
   for(i=0; i<chr_no; i++)
   {
      if(i!=32)
      {
      if(ch_fre[i] > ch_fre[max])
         max = i;
      }
   }
   printf("The Highest frequency of character '%c' appears number of times : %d \n\n",
max, ch_fre[max]);
}
```

**Ques 32. Write a C program to sort a string array in ascending order.**

```
#include <stdio.h>
#include <string.h>
void main()
{
 char str[100],ch;
 int i,j,l;

     printf("\n\nSort a string array in ascending order :\n");
     printf("-----------------------------------------\n");
     printf("Input the string : ");
     fgets(str, sizeof str, stdin);
 l=strlen(str);
 /* sorting process */
 for(i=1;i<l;i++)
  for(j=0;j<l-i;j++)
        if(str[j]>str[j+1])
        {
          ch=str[j];
          str[j] = str[j+1];
          str[j+1]=ch;
        }
  printf("After sorting the string appears like : \n");
  printf("%s\n\n",str);
 }
```

**Ques 33. Write a program in C to read a string through keyboard and sort it using bubble sort.**

```
#include <stdio.h>
#include <string.h>
void main()
{
 char name[25][50],temp[25];
 int n,i,j;

     printf("\n\nSorts the strings of an array using bubble sort :\n");
     printf("-------------------------------------------------\n");


 printf("Input number of strings :");
 scanf("%d",&n);

printf("Input string %d :\n",n);
 for(i=0;i<=n;i++)
 {

     fgets(name[i], sizeof name, stdin);
 }
   /*Logic Bubble Sort*/

   for(i=1;i<=n;i++)
        for(j=0;j<=n-i;j++)
         if(strcmp(name[j],name[j+1])>0)
         {
        strcpy(temp,name[j]);
           strcpy(name[j],name[j+1]);
           strcpy(name[j+1],temp);
         }
  printf("The strings appears after sorting :\n");
             for(i=0;i<=n;i++)
                  printf("%s\n",name[i]);

}
```

**Ques33. Write a program in C to extract a substring from a given string.**

```
#include <stdio.h>
void main()
{
```

```
  char str[100], sstr[100];
  int pos, l, c = 0;

     printf("\n\nExtract a substring from a given string:\n");
     printf("-------------------------------------------\n");

     printf("Input the string : ");
     fgets(str, sizeof str, stdin);

  printf("Input the position to start extraction :");
  scanf("%d", &pos);

  printf("Input the length of substring :");
  scanf("%d", &l);

  while (c < l)
  {
    sstr[c] = str[pos+c-1];
    c++;
  }
  sstr[c] = '\0';

  printf("The substring retrieve from the string is : \" %s\ "\n\n", sstr);

}
```

**Ques 34. Write a C program to check whether a given substring is present in the given string**

```
#include <stdio.h>
void main()
{
        char str[80],search[20];
        int c1=0,c2=0,i,j,flg;

     printf("\n\nCheck whether a given  substring is present in the given string :\n");
     printf("-----------------------------------------------------------------\n");


      printf("Input the string : ");
      fgets(str, sizeof str, stdin);
```

```
        printf("Input the substring to be search : ");
        fgets(search, sizeof search, stdin);

        while (str[c1]!='\0')
                c1++;
           c1--;

        while (search[c2]!='\0')
                c2++;
           c2--;


        for(i=0;i<=c1-c2;i++)
        {
                for(j=i;j<i+c2;j++)
                {
                        flg=1;
                        if (str[j]!=search[j-i])
                        {
                                flg=0;
                          break;
                        }
                }
                if (flg==1)
                        break;
        }
        if (flg==1)
                printf("The substring exists in the string.\n\n");
        else
                printf("The substring is not exists in the string. \n\n");
}
```

**Ques 35. Write a program in C to read a sentence and replace lowercase characters by uppercase and vice-versa.**

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>

void main()
```

```
{
 char str[100];
 int ctr, ch, i;

     printf("\n\nReplace lowercase characters by uppercase and vice-versa :\n");
     printf("-------------------------------------------------------------\n");

          printf("Input the string : ");
     fgets(str, sizeof str, stdin);

 i=strlen(str);

 ctr = i; /*shows the number of chars accepted in a sentence*/

 printf("\nThe given sentence is   : %s",str);

 printf("After Case changed the string  is: ");
 for(i=0; i < ctr; i++)
 {
  ch = islower(str[i]) ? toupper(str[i]) : tolower(str[i]);
  putchar(ch);
 }
 printf("\n\n");

}
```

**Ques 36. Write a program in C to find the number of times a given word 'the' appears in the given string.**

```
#include <stdio.h>
#include <string.h>
void main()
{
        int ctr=0,i,freq=0;
      int t,h,e,spc;
        char str[100];


     printf("\n\nFind the number of times the word 'the ' in any combination appears
:\n");
     printf("-----------------------------------------------------------------\n");
```

```
        printf("Input the string : ");
        fgets(str,sizeof str,stdin);

      ctr=strlen(str);

        /*Counts the frequency of the word 'the' with a trailing space*/
        for(i=0;i<=ctr-3;i++)
        {
                t=(str[i]=='t'||str[i]=='T');
                h=(str[i+1]=='h'||str[i+1]=='H');
                e=(str[i+2]=='e'||str[i+2]=='E');
                spc=(str[i+3]==' '||str[i+3]=='\0');
                if ((t&&h&&e&&spc)==1)
                  freq++;
        }
        printf("The frequency of the word \'the\' is : %d\n\n",freq);
}
```

**Ques 37. Write a program in C to remove characters in String Except Alphabets.**

```
#include <stdio.h>
#include <string.h>
void main(){
   char str[150];
   int i,j;

     printf("\n\nRemove characters in String Except Alphabets :\n");
     printf("-------------------------------------------------\n");

        printf("Input the string : ");
   fgets(str,sizeof str,stdin);
   for(i=0; str[i]!='\0'; ++i)
   {
      while (!((str[i]>='a'&&str[i]<='z') || (str[i]>='A'&&str[i]<='Z' || str[i]=='\0')))
      {
        for(j=i;str[j]!='\0';++j)
        {
           str[j]=str[j+1];
        }
        str[j]='\0';
```

```
      }
   }
   printf("After removing the Output String : %s\n\n",str);
}
```

**Ques38: Write a program in C to Find the Frequency of Characters.**

```
#include <stdio.h>
void main(){
  char str[1000],choice;
  int i,ctr=0;

     printf("\n\nFind the Frequency of Characters :\n");
     printf("---------------------------------------\n");

        printf("Input the string : ");
   fgets(str,sizeof str,stdin);

  printf("Input the character to find frequency: ");
  scanf("%c",&choice);
  for(i=0;str[i]!='\0';++i)
  {
     if(choice==str[i])
        ++ctr;
  }
  printf("The frequency of '%c' is : %d\n\n", choice, ctr);
}
```

**Ques 39: Write a program in C to find the largest and smallest word in a string.**

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>

void main()
{
   char str[100], word[20], mx[20], mn[20], c;
   int i = 0, j = 0, flg = 0;

     printf("\n\nFind the largest and  smallest word in a string :\n");
     printf("-----------------------------------------------------\n");

        printf("Input the string : ");
```

```
  i = 0;
  do
  {
     fflush(stdin);
     c = getchar();
     str[i++] = c;

  } while (c != '\n');
  str[i - 1] = '\0';
  for (i = 0; i < strlen(str); i++)
  {
     while (i < strlen(str) && !isspace(str[i]) && isalnum(str[i]))
     {
        word[j++] = str[i++];
     }
     if (j != 0)
     {
        word[j] = '\0';
        if (!flg)
        {
           flg = !flg;
           strcpy(mx, word);
           strcpy(mn, word);
        }
        if (strlen(word) > strlen(mx))
        {
           strcpy(mx, word);
        }
        if (strlen(word) < strlen(mn))
        {
           strcpy(mn, word);
        }
        j = 0;
     }
  }
  printf("The largest word is '%s' \nand the smallest word is '%s' \nin the string :
'%s'.\n", mx, mn, str);
 }
```