Strings:

7.Write a c program to count the lines, words and characters in the given text

#include<stdio.h>

#include<string.h>

void main(){

    char text[1000];

    printf("Enter the text: \n");

    gets(text);

    int n=strlen(text);

    int linecount=1, wordcount=1;

    for (int i=0; i<n; i++){

        char a = text[i];

        if(a=='\n'){

            linecount++;

        }

        else if(a == ' '){

            wordcount++;

        }

    }

printf("The number of lines = %d\n Then number of words = %d\n The number of characters=%d\n",linecount,wordcount,n);

}

6.Write a c program that displays the position of a character ch in the string

#include<stdio.h>

#include<string.h>

int main(){

    char text[1000], targ;

    printf("Enter the text:\n");

    gets(text);

    int n = strlen(text), arr[n], j=0;

    printf("Enter the target character:\n");

    scanf("%c", &targ);

    for(int i=0; i<n; i++){

        if(targ==text[i]){

            arr[j]=i;

            j++;

        }

    }

    printf("The character '%c' is at the index/indexes:",targ);

    for(int i=0; i<j; i++){

        printf("%d\n", arr[i]);

    }

    return 0;

}

5. Write a c program to determine if the given string is a palindrome or not

#include<stdio.h>

#include<string.h>

int main(){

    char ch[1000]="";

    printf("Enter the string:\n");

    scanf("%s", ch);

    int i, x =strlen(ch);

    for (i = 0;i<x;i++){

        if(ch[i]!=ch[x-i-1]){

            printf("It is not a palindrome.");

            return 0;

        }

    }

    printf("It is a palindrome.");

    return 0;

}

4. To delete n characters from a given position in a given string.

#include<stdio.h>

#include<string.h>

int main(){

    int n,p;

    char strin[100];

    printf("Enter the string:\n");

    scanf("%s",&strin);

    printf("Enter the position and number of characters need to be deleted:\n");

    scanf("%d%d", &p,&n);

    int x = strlen(strin), y=0;

    char strnew[x];

    for(int i=0; i<p; i++){

        strnew[y] = strin[i];

        y++;

    }

    for(int i=p+n;i<x;i++){

        strnew[y] = strin[i];

        y++;

    }

    printf("The edited string is: %s", strnew);

    return 0;

}

3.to insert a substring in a given main string from a given position

#include<stdio.h>

#include<string.h>

int main(){

    char str[1000]="",substr[1000]="",resstr[1000]="";

    int n,i,j,k, sublength, length;

    printf("Enter the main string:\n");

    scanf("%s",&str);

    printf("Enter the sub string:\n");

    scanf("%s", &substr);

    printf("Enter the position:\n");

    scanf("%s", &n);

    for(i=0;i<n;i++){

        resstr[i]=str[i];

    }

    sublength = strlen(substr);

    j = n;

    for(i=0;i<sublength;i++){

        resstr[j] = substr[i];

        j++;

    }

    length = strlen(str);

    for(i=j;i<length+sublength;i++){

        resstr[i] = str[n];

        n++;

    }

    printf("The result is %s", resstr);

    return 0;

}