DAY 6

/\*//Write C program to implement basic string manipulations

//string length

#include <stdio.h>

int main()

{

char s[100];

int i=0;

printf("Enter a string:\n");

scanf("%s",s);

while(s[i]!='\0')

{

i++;

}

printf("Length of string is %d",i);

return 0;

}

//string compare

#include <stdio.h>

int compare(char[],char[]);

int main()

{

char str1[20];

char str2[20];

printf("Enter the first string : ");

scanf("%s",str1);

printf("Enter the second string : ");

scanf("%s",str2);

int c= compare(str1,str2);

if(c==0)

printf("strings are same");

else

printf("strings are not same");

return 0;

}

int compare(char a[],char b[])

{

int flag=0,i=0;

while(a[i]!='\0' &&b[i]!='\0')

{

if(a[i]!=b[i])

{

flag=1;

break;

}

i++;

}

if(flag==0)

return 0;

else

return 1;

}

//1.Program to reverse individual words in a given line of string

#include <stdio.h>

#include <string.h>

void main()

{

int i, j = 0, k = 0, x, len;

char str[100], str1[10][20], temp;

printf("Enter the string :");

scanf("%[^\n]s",str);

for (i = 0;str[i] != '\0'; i++)

{

if (str[i] == ' ')

{

str1[k][j]='\0';

k++;

j=0;

}

else

{

str1[k][j]=str[i];

j++;

}

}

str1[k][j] = '\0';

for(i=0;i<=k;i++)

{

len = strlen(str1[i]);

for (j = 0, x = len - 1;j < x;j++,x--)

{

temp = str1[i][j];

str1[i][j] = str1[i][x];

str1[i][x] = temp;

}

}

for(i=0;i<=k;i++)

{

printf("%s ", str1[i]);

}

}\*/

//2.Program to check if two given string is anagram of each other

#include<stdio.h>

#include<string.h>

int check\_anagram(char [], char []);

struct str

{

char a[100],b[100];

};

typedef struct str st;

st s;

int main()

{

printf("Enter the first string : ");

scanf("%s",s.a);

printf("Enter the second string : ");

scanf("%s",s.b);

if (check\_anagram(s.a,s.b))

printf("The strings are anagrams.\n");

else

printf("The strings aren't anagrams.\n");

return 0;

}

int check\_anagram(char a[], char b[])

{

int first[26] = {0}, second[26] = {0}, c=0;

while (a[c] != '\0')

{

first[a[c]-'a']++;

c++;

}

c = 0;

while (b[c] != '\0')

{

second[b[c]-'a']++;

c++;

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for (c = 0; c < 26; c++)

if (first[c] != second[c])

return 0;

return 1;

}