//Program to check the pattern

#include<stdio.h>

//function to match a pattern

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

int main(){

char pattern[40];

char string[100];

int n,m,i;

printf("Enter the size of test string\n");

scanf("%d",&n);

printf("Enter the size of pattern\n");

scanf("%d",&m);

printf("Enter the test string:");

for(i=0;i<n;i=i+1)

scanf("%s",&string[i]);

printf("\nEnter the pattern\n");

for(i=0;i<m;i=i+1)

scanf("%s",&pattern[i]);

int index=patternMatch(string,n,pattern,m);

if(index>=0)

{

printf("\nThe patterns match at location %d\n",index);

}

else

{

printf("\nThe patterns don't match\n");

}

return 0;

}

int patternMatch(char string[],int n,char pattern[],int m)

{

int i,j;

for(int i=0;i<=n-m;i++)

{

j=0;

while(j<m&&pattern[j]==string[i+j])

{

j++;

}

if(j==m)

return i;

}

return -1;

}

OUTPUT:

