```c
#include<stdio.h>
#include<limits.h>
int main()
{
    int n,1 =INT_MIN,s1 =INT_MIN;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
        if(arr[i]>1)
    {
        s1 =1 ;
        1 =arr[i];
    }
    else if(arr[i]>s1 && arr[i]!=1)
    {
        s1 =arr[i];
    }
     }
     printf("The largest element of the array = %d\n",1);
      if(s1==INT_MIN)
      {
          printf("no\n");
      }
      else
      {
          printf("The second largest element of the array = %d\n",s1);
      }
      return 0;
}
```

```c
#include<stdio.h>
#include<limits.h>
int main()
{
    int n,s=INT_MAX,ss=INT_MAX;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
        if(arr[i]<s)
        {
            ss=s;
            s=arr[i];
        }
        else if (arr[i]<ss && arr[i]!=s)
        {
            ss=arr[i];
        }
    }printf("Min element = %d\n",s);
    if(ss==INT_MAX)
    {
        printf("no\n");
    }
    else
    {
        printf("Second min element = %d\n",ss);
    }
}
```

85	

4 36 45 38 56	The total marks = 175 The average marks = 43.750000

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int i,n,t=0;
    float a;
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        int m;
        scanf("%d",&m);
        t+=m;
    }
    a=(float)t/n;
    printf("The total marks = %d\n",t);
    printf("The average marks = %.6f\n",a);
}
```

```c
#include <stdio.h>
int main()
{
    int i, j, m, n, p, q;
    int a[5][5], b[5][5], c[5][5];
    scanf("%d %d", &m, &n);
    for (i=0;i<m;i++)
    { // Complete the code in for
        for (j=0;j<n;j++)
        { // Complete the code in for
            scanf("%d", &a[i][j]);
        }
    }
    scanf("%d %d", &p, &q);
    for (i=0;i<m;i++)
    { // Complete the code in for
        for (j=0;j<n;j++)
        { // Complete the code in for
            scanf("%d ", &b[i][j]);
        }
    }
    printf("The given matrix-1 is\n");
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            printf("%d ",a[i][j]);
        }
        printf("\n");
    }
```

```
    }
    printf("The given matrix-2 is\n");
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            printf("%d ",b[i][j]);
        }
        printf("\n");
    }
    if (m!=p || n!=q)
    {
        printf("Addition of two matrices is\n");
    }
    else
    { // Write the condition part
        for (i=0;i<m;i++)
        { // Complete the code in for
            for (j=0;j<n;j++)
            { // Complete the code in for
                c[i][j] = a[i][j]+b[i][j]; // Complete the statement
            }
        }
        printf("Addition of two matrices is\n");
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                printf("%d ",c[i][j]);
            }
```

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```c
#include <stdio.h>
int main()
{
    int i, j, k, m, n, p, q;
    int a[5][5], b[5][5], c[5][5];
    scanf("%d %d", &m, &n);
    for (i=0;i<m;i++)
    { // Complete the code in for
        for (j=0;j<n;j++)
        { // Complete the code in for
            scanf("%d", &a[i][j]);
        }
    }
    scanf("%d %d", &p, &q);
    for (i=0;i<m;i++)
    { // Complete the code in for
        for (j=0;j<n;j++)
        { // Complete the code in for
            scanf("%d", &b[i][j]);
        }
    }
    printf("The given matrix-1 is\n");
    // Write the code to display Matrix-1 elements
    for(i=0;i<m;i++){
        for(j=0;j<n;j++){
            printf("%d",a[i][j]);
        }
        printf("\n");
    }

    printf("The given matrix-2 is\n");
    // Write the code to display Matrix-2 element
    for (i=0;i<n;i++){
```

```
    printf("The given matrix-2 is\n");
    // Write the code to display Matrix-2 element
        for (i=0;i<p;i++){
            for(j=0;j<q;j++){
                printf("%d", b[i][j]);
            }
            printf("\n");
        }
        if(n==p)
        {
            for(i=0;i<m;i++)
        { // Complete the code in for
            for (j=0;j<p;j++)
            { // Complete the code in for
                c[i][j] = 0 ; // Complete the statement
                for (k=0;k<n;k++)
                { // Complete the code in for
                    c[i][j] =a[i][k]*b[k][j] ;// Complete the statement
                }
            }
        }
        printf("Multiplication of two matrices is\n");
        // Write the code to display resultant matrix elements
        for(i=0;i<m;i++){
            for(j=0;j<q;j++){
                printf("%d",c[i][j]);
            }
            printf("\n");
        }

    }
    else
    {
```

```
        }
    }
    printf("Multiplication of two matrices is\n");
    // Write the code to display resultant matrix elements
    for(i=0;i<m;i++){
        for(j=0;j<q;j++){
            printf("%d",c[i][j]);
        }
        printf("\n");
    }

}
else
{
    printf("Multiplication is not possible");
}
return 0;
```

ut	Expected	Got
	The given matrix-1 is	The given matrix-1 is
3 5 7 9	1 2 3	123
	5 7 9	579
1 5 6 7	The given matrix-2 is	The given matrix-2 is
	3 2	32
	1 5	56
	6 7	20480
	Multiplication of two matrices is	Multiplication of two matrices i
	23 33	61440

```c
#include <stdio.h>

int main()
{
    char line[100];
    int i, vowels = 0, consonants = 0, digits = 0, spaces = 0;
    fgets(line, sizeof(line), stdin);
    for (i=0;line[i]!='\0';i++)
    { // Complete the code in for
        if (line[i]=='a'||line[i]=='e'||line[i]=='i'||line[i]=='o'||line[i]=='u'||line[i]=='A'
        { // Write the condition part
            ++vowels;
        }
        else if ((line[i]>='a' && line[i]<='z')||(line[i]>='A' && line[i]<='Z') )
        { // Write the condition part
            ++consonants;
        }
        else if (line[i]>='0' && line[i]<='9' )
        { // Write the condition part
            ++digits;
        }
        else if (line[i]== ' ' )
        { // Write the condition part
            ++spaces;
        }
    }
    printf("Vowels = %d\n", vowels);
    printf("Consonants = %d\n",consonants);
    printf("Digits = %d\n",digits);
    printf("White spaces = %d", spaces);
    return 0;
}
```

```c
#include <stdio.h>

int main()
{
    char str1[50], str2[50];
    int i;
    scanf("%s", str1);
    for (i=0 ;str1[i]!='\0' ;i++)
    { //Complete the code in for
        str2[i] =str1[i] ;
    }
    str2[i] = '\0' ; //Complete the statement
    printf("The copied string = %s\n", str2);
    return 0;
}
```

Reset answer

```c
#include <stdio.h>

int main()
{
    char a[20], b[20], c[20];
    int i=0, j=0;
    scanf("%s", a);
    scanf("%s", b);
    for (i=0;a[i]!='\0';i++)
    { // Complete the code in for
        c[i] = a[i] ; //Complete the statement
    }
    for (j=0;b[j]!='\0';j++ )
    { // Complete the code in for
        c[i+j] = b[j] ; //Complete the statement
        //i++;
    }
    c[i+j] ='\0'; //Complete the statement
    printf("%s\n", c);
    return 0;
}
```

Reset answer

```c
#include <stdio.h>

int main()
{
    char a[20], b[20];
    int i = 0, flag = 0;
    scanf("%s", a);
    scanf("%s", b);
    while (a[i]!='\0' || b[i]!='\0' )
    { //Complete the condition part
        if (a[i]!=b[i] )
        { //Complete the condition part
            flag =1 ; //Complete the statement
            break;
        }
        i++;
    }
    if (flag ==0 && a[i]=='\0'&& b[i]=='\0' )
    { //Complete the condition part
        printf("Two strings are equal\n");
    }
    else
    {
        printf("Two strings are not equal\n");
    }
    return 0;
}
```

```c
int main()
{
    char str[20], ch;
    int count = 0, i;
    scanf("%s", str);
    scanf(" %c", &ch);
    for (i=0;str[i]!='\0';i++ )
    { // Complete the code in for
        if (str[i]==ch )
        { // Write the condition part
            count++;
        }
    }
    if (count==0 )
    { // Write the condition part
        printf("The character '%c' is not presented in the string %s\n", ch, str);
    }
    else
    {
        printf("Occurence of character '%c' in the given string %s = %d\n", ch, str, count);
    }
    return 0;
}
```

```c
#include<stdio.h>

int main()
{
    int upper_count = 0, lower_count = 0;
    char ch[80];
    int i;
    scanf("%s",ch ); // Complete the statement
    i =0 ; // Complete the statement
    while (ch[i]!='\0' )
    { // Write the condition part
        if (ch[i]>='A' && ch[i]<= 'Z' )
        { // Write the condition part
            upper_count++;
        }
        if (ch[i]>='a' && ch[i]<='z' )
        { // Write the condition part
            lower_count++;
        }
        i++;
    }
    printf("Number of uppercase letters = %d\n", upper_count  );
    printf("Number of lowercase Letters = %d\n", lower_count  );
    return 0;
}
```

```c
#include<stdio.h>

int main()
{
    char ch[80], temp;
    int i, j;
    scanf("%s", ch);
    i = j = 0;
    while (ch[j]!='\0' )
    { // Write the condition part
        j++;
    }
    j--;
    while (i<j )
    { // Write the condition part
        temp =ch[i] ; // Complete the statement
        ch[i] =ch[j] ; // Complete the statement
        ch[j] = temp; // Complete the statement
        i++;
        j--;
    }
    printf("The reverse of a given string : %s\n", ch);
    return 0;
}
```

```c
#include <stdio.h>

int main()
{
    char ch[80];
    int i, j, length, flag = 0;
    scanf("%s",ch ); // Complete the statement
    length = 0;
    while (ch[length]!=0 )
    { //Write the condition part
        length++;
    }
    for (i=0,j=length-1;i<length/2;i++,j-- )
    { // Complete the code in for
        if (ch[i]!=ch[j] )
        { // Write the condition part
            flag++;
            break;
        }
    }
    if (flag==0 )
    { // Write the condition part
        printf("The given string %s is a palindrome\n",ch  ); // Complete the statement
    }
    else
    {
        printf("The given string %s is not a palindrome\n", ch ); // Complete the statement
    }
    return 0;
}
```

Reset answer

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

int main()
{
    char ch[20];
    scanf("%s", ch);
    printf("The length of the string %s is %ld\n", ch, strlen(ch)); //Correct the code
    return 0;
}
```

Input	Expected	Got

```c
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[20],str2[20];
    scanf("%s",str2);
    strcpy(str1,str2);
    printf("The copied string = %s",str1);
    return 0;
}
```

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

int main()
{
    char str1[20], str2[20];
    scanf("%s", str1);
    scanf("%s", str2);
    strcat(str1, str2);
    printf("%s\n", str1 ); // Correct the code
    return 0;
}
```

Answer: (penalty regime: 0 %)

Reset answer

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

int main()
{
    char a[20], b[20];
   //int i,j;
    scanf("%s", a);
    scanf("%s", b);

    if (strcmp(a,b)==0 )
    { // Correct the code
        printf("The given two strings are equal\n");
    }
    else if (strcmp(a,b)>0 )
    { // Correct the code
        printf("The string %s is higher than the string %s\n", a, b);
    }
    else
    {
        printf("The string %s is higher than the string %s\n", b, a);
    }
    return 0;
}
```