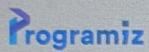


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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //Srivatsa
4
5 int main() {
6     char str[100];
7     int i, count = 0;
8
9     printf("Enter a string: ");
10    fgets(str, 100, stdin);
11
12    for (i = 0; str[i] != '\0'; i++) {
13        if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i]
14            == 'o' || str[i] == 'u' ||
15            str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i]
16            == 'O' || str[i] == 'U') {
17                count++;
18
19            printf("Number of vowels: %d\n", count);
20
21        return 0;
22    }
```

Enter a string: strivats

Number of vowels: 2

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Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //SRIVATSA
4 int main() {
5     char str[100];
6     int i, j, len;
7
8     printf("Enter a string: ");
9     fgets(str, 100, stdin);
10
11    len = strlen(str) - 1; // Exclude the newline character
12
13    // Reverse the string
14    for (i = 0, j = len; i < j; i++, j--) {
15        char temp = str[i];
16        str[i] = str[j];
17        str[j] = temp;
18    }
19
20    printf("Reversed string: %s\n", str);
21
22    return 0;
23 }
```

Enter a string: sriVats

Reversed string:
stavirs

== Code Execution Successful ==

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Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //srivatsa
4
5- int is_palindrome(char *str) {
6    int len = strlen(str);
7    for (int i = 0; i < len / 2; i++) {
8        if (str[i] != str[len - i - 1]) {
9            return 0;
10       }
11    }
12    return 1;
13 }
14
15- int main() {
16    char str[100];
17    printf("Enter a string: ");
18    scanf("%s", str);
19    if (is_palindrome(str)) {
20        printf("%s is a palindrome.\n", str);
21    } else {
22        printf("%s is not a palindrome.\n", str);
23    }
24    return 0;
```

Enter a string: 121
121 is a palindrome.

==== Code Execution Successful ===

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //srivatsa
4 int main() {
5     char str[100], ch;
6     int i, count = 0;
7
8     printf("Enter a string: ");
9     fgets(str, 100, stdin);
10
11    printf("Enter a character to find its frequency: ");
12    scanf(" %c", &ch);
13
14    for (i = 0; str[i] != '\0'; i++) {
15        if (str[i] == ch) {
16            count++;
17        }
18    }
19
20    printf("Frequency of %c in the string is: %d\n", ch, count);
21
22    return 0;
23 }
24 }
```

Enter a string: shshsdhdjdg

Enter a character to find its frequency: h

Frequency of h in the string is: 3

==== Code Execution Successful ===

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Run

```
5     char str1[100], str2[100], str3[200];
6     int i, j;
7
8     printf("Enter the first string: ");
9     scanf("%s", str1);
10
11    printf("Enter the second string: ");
12    scanf("%s", str2);
13
14    // Copy the first string to the result string
15    for (i = 0; str1[i] != '\0'; i++) {
16        str3[i] = str1[i];
17    }
18
19    // Copy the second string to the result string
20    for (j = 0; str2[j] != '\0'; j++) {
21        str3[i + j] = str2[j];
22    }
23
24    // Add the null terminator to the result string
25    str3[i + j] = '\0';
26
27    printf("Concatenated string: %s\n", str3);
28
29    return 0;
30 }
```

Output

Enter the first string: hah
Enter the second string: ajaj
Concatenated string: hahajaj

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main.c

Run

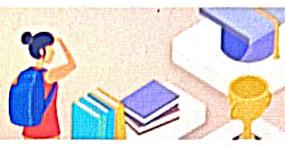
Output

```
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     int i, j;
7     char temp;
8
9     printf("Enter a string: ");
10    fgets(str, 100, stdin);
11    str[strcspn(str, "\n")] = 0;
12
13    for (i = 0; i < strlen(str) - 1; i++) {
14        for (j = i + 1; j < strlen(str); j++) {
15            if (str[i] > str[j]) {
16                temp = str[i];
17                str[i] = str[j];
18                str[j] = temp;
19            }
20        }
21    }
22
23    printf("Sorted string: %s\n", str);
24
25    return 0;
26 }
27 }
```

Enter a string: nsjsx
Sorted string: jnssx

==== Code Execution Successful ===

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6
7     printf("Enter a string: ");
8     fgets(str, 100, stdin);
9
10    if (strlen(str) == 0) {
11        printf("The string is empty.\n");
12    } else {
13        printf("The string is not empty.\n");
14    }
15
16    return 0;
17 }
```

Enter a string: jxjx
The string is not empty.

== Code Execution Successful ==

C

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str1[100], str2[100];
6     printf("Enter a string: ");
7     fgets(str1, 100, stdin);
8     str1[strcspn(str1, "\n")] = 0;
9     if (strlen(str1) < 10) {
10         strcpy(str2, str1);
11         printf("Copied string: %s\n", str2);
12     } else {
13         printf("String length is greater than 10, not copied.\n");
14     }
15     return 0;
16 }
17
```

Enter a string: skjksksd
Copied string: skjksksd

== Code Execution Successful ==

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char strings[][100] = {"Hello", "World", "This", "is", "a",
6         "test"};
7     int lengths[6];
8     int longest_string_index = 0;
9     int longest_length = 0;
10
11    for (int i = 0; i < 6; i++) {
12        lengths[i] = strlen(strings[i]);
13        if (lengths[i] > longest_length) {
14            longest_length = lengths[i];
15            longest_string_index = i;
16        }
17    }
18    printf("The longest string is: %s\n",
19         strings[longest_string_index]);
20 }
21
```

The longest string is: Hello

== Code Execution Successful ==

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[] = "Hello World!";
6     int count = 0;
7     for (int i = 0; i < strlen(str); i++) {
8         if (str[i] != ' ') {
9             count++;
10        }
11    }
12    printf("Number of characters excluding spaces: %d\n", count);
13    return 0;
14 }
```

Number of characters excluding spaces: 11

==== Code Execution Successful ===

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main.c

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[100];
6     printf("Enter a string: ");
7     fgets(str, sizeof(str), stdin);
8
9     int len = strlen(str);
10    if (len > 0) {
11        str[len - 1] = '\0'; // Removing the last character
12    }
13
14    printf("String after removing the last character: %s\n", str);
15    return 0;
16 }
```



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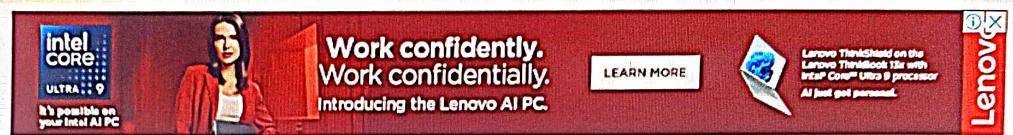
Run

Output

Enter a string: hzxhshs

String after removing the last character: hzxhshs

==== Code Execution Successful ===



main.c

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str[] = "Hello World!";
6     int len = strlen(str);
7
8     for (int i = 0; i <= len - 3; i++) {
9         printf("%c%c%c\n", str[i], str[i + 1], str[i + 2]);
10    }
11
12    return 0;
13 }
```



Run

Output

```
Hel
ell
llo
lo
o W
Wo
Wor
orl
rld
ld!
```

==== Code Execution Successful ===



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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char source[] = "Hello";
6     char dest[6];
7     int i;
8     for (i = 0; i < 5; i++) {
9         dest[i] = source[i];
10    }
11    dest[5] = '\0';
12    printf("Source string: %s\n", source);
13    printf("Destination string: %s\n", dest);
14    return 0;
15 }
```

Source string: Hello
Destination string: Hello

== Code Execution Successful ==



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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str1[100], str2[100];
6     printf("Enter the first string: ");
7     fgets(str1, 100, stdin);
8     str1[strcspn(str1, "\n")] = 0; // Remove newline character
9     printf("Enter the second string: ");
10    fgets(str2, 100, stdin);
11    str2[strcspn(str2, "\n")] = 0; // Remove newline character
12
13    // Copy the first string to the second string
14    strcpy(str2, str1);
15
16    // Compare the strings
17    if (strcmp(str1, str2) == 0) {
18        printf("The strings are identical.\n");
19    } else {
20        printf("The strings are not identical.\n");
21    }
22
23    return 0;
24 }
25 }
```

Enter the first string: hhhsx
Enter the second string: ghxzhjxhj
The strings are identical.

== Code Execution Successful ==

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 // Srivatsa
4 int main() {
5     char str1[100] = "Hello, World!";
6     char str2[100] = "";
7
8     strcpy(str2, str1);
9
10    printf("String 1: %s\n", str1);
11    printf("String 2: %s\n", str2);
12
13    return 0;
14 }
```

String 1: Hello, World!
String 2: Hello, World!

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 // Srivatsa
4 int main() {
5     char *strings[] = {"Hello", "World", "!", "This", "is", "a",
6         "test"};
7     char array[100][100];
8     int i;
9     for (i = 0; i < sizeof(strings) / sizeof(strings[0]); i++) {
10        strcpy(array[i], strings[i]);
11    }
12    for (i = 0; i < sizeof(strings) / sizeof(strings[0]); i++) {
13        printf("%s ", array[i]);
14    }
15 }
```

Hello World ! This is a test

== Code Execution Successful ==

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main.c

```
1 #include <stdio.h>
2 #include <string.h>
3 //Srivatsa
4 int main() {
5     char str1[] = "Hello";
6     char str2[] = "World!";
7     char temp[50];
8
9     strcpy(temp, str1);
10    strcat(temp, str2);
11
12    printf("%s\n", temp);
13
14    return 0;
15 }
```



Run

Output

HelloWorld!

==== Code Execution Successful ===



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main.c



Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //Srivatsa
4
5 int main() {
6     char str1[] = "Hello, ";
7     char str2[] = "world!";
8     char str3[50];
9
10    strcpy(str3, str1);
11    strcat(str3, str2);
12
13    printf("%s\n", str3);
14
15    return 0;
16 }
```

Hello, world!

==== Code Execution Successful ====



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main.c

```
1 #include <stdio.h>
2 #include <string.h>
3 //srivatsa|
4
5 int main() {
6     char str1[20];
7     char str2[20];
8     char result[20];
9
10    printf("Enter the first string: ");
11    scanf("%s", str1);
12
13    printf("Enter the second string: ");
14    scanf("%s", str2);
15
16    strcpy(result, str1);
17    strcat(result, str2);
18
19    if (strlen(result) > 20) {
20        result[20] = '\0';
21    }
22
23    printf("Concatenated string: %s\n", result);
24
```



Share

Run

Output

```
Enter the first string: sfsetdf
Enter the second string: SR5TY
Concatenated string: sfsetdfsR5TY
```

==== Code Execution Successful ===

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //srivatsa
4 int main() {
5     char str1[100], str2[100], str3[200];
6     int i, j, k;
7
8     printf("Enter first string: ");
9     gets(str1);
10
11    printf("Enter second string: ");
12    gets(str2);
13
14    i = strlen(str1) - 1;
15    j = strlen(str2) - 1;
16    k = 0;
17
18    while (i >= 0) {
19        str3[k++] = str1[i--];
20    }
21
22    while (j >= 0) {
23        str3[k++] = str2[j--];
24    }
```

```
/tmp/QZfLQQmacy/main.c: In function 'main':
/tmp/QZfLQQmacy/main.c:9:5: warning: implicit declaration of
      function 'gets' [-Wimplicit-function-declaration]
9 |     gets(str1);
|     ^
|     |
|     fgets
/rbin/ld: /tmp/ccd6SQ70.o: in function `main':
main.c:(.text+0x27): warning: the `gets' function is dangerous
      and should not be used.
Enter first string: srivatsa
Enter second string: kulkarni'
Concatenated string in reverse order: astavirs'inrakluk
```

== Code Execution Successful ==

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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //Srivatsa
4 int main() {
5     char str1[100], str2[100];
6
7     printf("Enter the first string: ");
8     gets(str1);
9
10    printf("Enter the second string: ");
11    gets(str2);
12
13    if (strcmp(str1, str2) > 0) {
14        printf("%s is lexicographically larger than %s\n", str1, str2
15        );
15-   } else if (strcmp(str1, str2) < 0) {
16        printf("%s is lexicographically larger than %s\n", str2, str1
17        );
17-   } else {
18        printf("Both strings are equal\n");
19    }
20
21    return 0;
22 }
```

```
/tmp/t0SsXNnE66/main.c: In function 'main':
/tmp/t0SsXNnE66/main.c:8:5: warning: implicit declaration of
      function 'gets' [-Wimplicit-function-declaration
8 |     gets(str1);
|     ^
|     fgets
/rbin/ld: /tmp/ccwhnqbj.o: in function `main':
main.c:(.text+0x27): warning: the `gets' function is dangerous
      and should not be used.
Enter the first string: srivatsa
Enter the second string: k
srivatsa is lexicographically larger than k

*** Code Execution Successful ***
```

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main.c



Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 //srivatsa
4 int main() {
5     char str1[100], str2[100];
6     printf("Enter the first string: ");
7     gets(str1);
8     printf("Enter the second string: ");
9     gets(str2);
10
11    if (strcmp(str1, str2) < 0) {
12        printf("%s\n%s\n", str1, str2);
13    } else {
14        printf("%s\n%s\n", str2, str1);
15    }
16
17    return 0;
18 }
```

```
/tmp/dwJLbEwkVm/main.c: In function 'main':
/tmp/dwJLbEwkVm/main.c:7:5: warning: implicit declaration of function
      ; did you mean 'fgets'? [-Wimplicit-function-declaration]
7 |     gets(str1);
|     ^~~~
|     fgets
/rbin/ld: /tmp/cc4FeupK.o: in function `main':
main.c:(.text+0x27): warning: the `gets' function is dangerous and
      not be used.
Enter the first string: welcome to c programming
Enter the second string: skill lab
skill lab
welcome to c programming
```

==== Code Execution Successful ===

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main.c



Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char password[] = "password123";
6     char input[50];
7
8     printf("Enter password: ");
9     scanf("%s", input);
10
11    if (strcmp(input, password) == 0) {
12        printf("Password match!\n");
13    } else {
14        printf("Incorrect password!\n");
15    }
16
17    return 0;
18 }
```

Enter password: password123
Password match!

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main.c

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str1[100], str2[100];
6     printf("Enter the first string: ");
7     fgets(str1, 100, stdin);
8     str1[strcspn(str1, "\n")] = 0; // Remove trailing newline
9     printf("Enter the second string: ");
10    fgets(str2, 100, stdin);
11    str2[strcspn(str2, "\n")] = 0; // Remove trailing newline
12
13    if (strlen(str1) < strlen(str2)) {
14        printf("The smallest string is: %s\n", str1);
15    } else if (strlen(str2) < strlen(str1)) {
16        printf("The smallest string is: %s\n", str2);
17    } else {
18        printf("Both strings are of equal length.\n");
19    }
20
21    return 0;
22 }
```



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Output

Enter the first string: skill lab
Enter the second string: siet
The smallest string is: siet

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Sale ends in 00d



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main.c



Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char username[50], password[50];
6     char correct_username[] = "admin";
7     char correct_password[] = "password";
8
9     printf("Enter username: ");
10    scanf("%s", username);
11
12    printf("Enter password: ");
13    scanf("%s", password);
14
15    if (strcmp(username, correct_username) == 0 && strcmp(password,
16                correct_password) == 0) {
17        printf("Login successful!\n");
18    } else {
19        printf("Login failed.\n");
20    }
21
22 }
```

Enter username: admin
Enter password: password
Login successful!

==== Code Execution Successful ===

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main.c



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Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char str1[] = "Hello, World!";
6     char str2[50];
7
8     strcpy(str2, str1);
9
10    printf("String copied: %s\n", str2);
11
12    return 0;
13 }
```

String copied: Hello, World!

==== Code Execution Successful ===

