

## Compile Result

```
Enter a string
```

```
madam
```

```
The length of the string 'madam' = 5  
madam is a palindrome
```

```
[Process completed (code 23) - press  
Enter]
```

## Algorithm

Step 1: Start

Step 2: Declare char string[25], reverse-string[25] = '\0';  
Initialize int i, length = 0, flag = 0

Step 3: Read the string

Step 4: for (i = 0; string[i] != '\0'; i++)  
{ length++; }

Step 5: Print the length of string

S.1 for (i = length - 1; i >= 0; i--)  
{ reverse-string[length - i - 1] = string[i]; }

S.2 for (flag = 1, i = 0; i < length; i++)  
{ if (reverse-string[length - i - 1] != string[i])  
flag = 0 }

Step 6: if (flag == 1)  
print result

Step 7: stop

