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Methods to concatenate string in C/C++ with Examples

Last Updated: 20-02-2019

There are various ways to concatenate strings. We will discuss each one by one.

Method 1: Using strcat() function.

The strcat() function is defined in "string.h" header file.

Syntax:

```
char * strcat(char * init, const char * add)
```

The init and add string should be of character array(char*). This function concatenates the added string to the end of the init string.



সব হবে এখন ফুল স্পিডে

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Example:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    char init[] = "this is init";
    char add[] = " added now";
```

```
// concatenating the string.
strcat(init, add);

cout << init << endl;

return 0;
}</pre>
```

Output:

```
this is init added now
```

Method 2: Using append() function.

Syntax:

```
string& string::append (const string& str)
str: the string to be appended.
```

Here str is the object of std::string class which is an instantiation of the basic_string class template that uses char (i.e., bytes) as its character type. The append function appends the add(variable) string at the end of the init string.

Example:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    string init("this is init");
    string add(" added now");

    // Appending the string.
    init.append(add);

    cout << init << endl;
    return 0;
}</pre>
```

Output:

```
this is init added now
```

Method 3: Using '+' Operator

Syntax:

```
string new_string = string init + string add;
```

This is the most easiest method for concatenation of two string. The + operator simply adds the two string and returns a concatenated string.

Example:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    string init("this is init");
    string add(" added now");

    // Appending the string.
    init = init + add;

    cout << init << endl;
    return 0;
}</pre>
```

Output:

```
this is init added now
```

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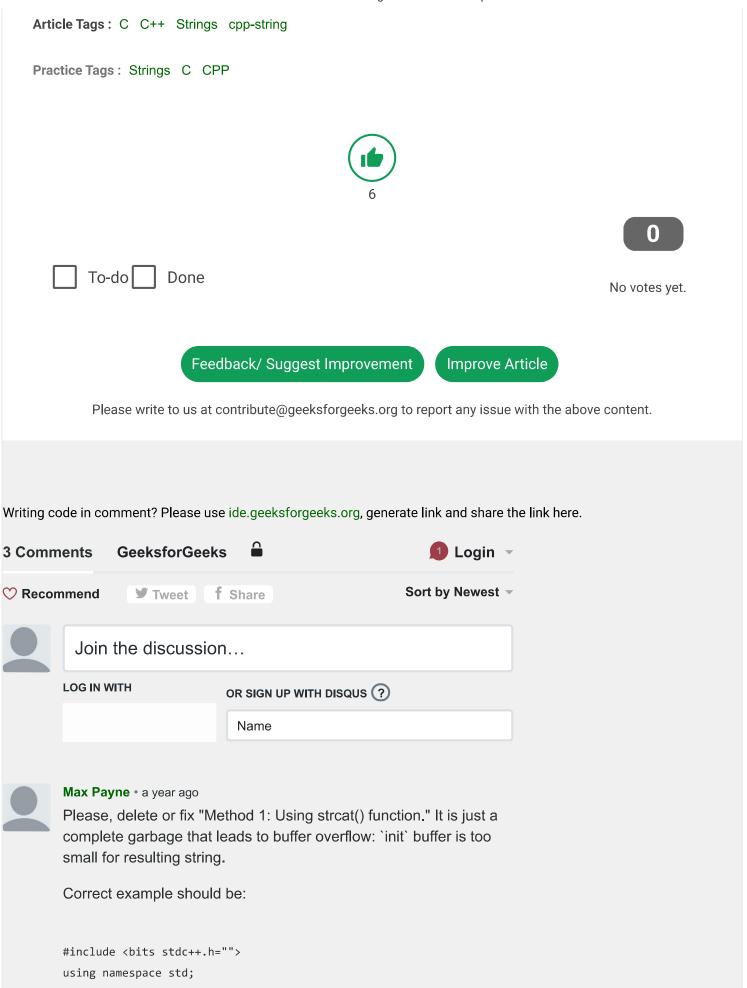
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```
int main()
{
// Make sure enough space is reserved
char init[256] = "this is init";
char add[] = " added now";

// concatenating the string.
strcat(init, add);

cout << init << endl;

return 0;
}</pre>
```



Oleh Kravchenko → Max Payne • a year ago

Please consider to use strncat()



Param Mittal • 2 years ago

Really a good article....

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