# C++ String insert()

This function is used to insert a new character, before the character indicated by the position pos.

## Syntax

Consider two strings str1 and str2, pos is the positon. Syntax would be :

```
str1.insert(pos,str2);
```

## Parameters

**str :** String object to be inserted in another string object.

**pos :** It defines the position at which new content is inserted just before the specified position.



**subpos :** It defines the position of first character in string str which is to be inserted in another string object.

**sublen :** It defines the number of characters of string str to be inserted in another string object.

**n :** It determines the number of characters to be inserted.

**c :** Character value to insert.

## Example 1

Let's see the simple example.

```
#include<iostream>
using namespace std;
```

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```cpp
string str1= "javat tutorial";

cout<<"String contains :" <<str1<<'\n';

cout<<"After insertion, String value is :"<<str1.insert(5,"point");

return 0;

}
```

**Output:**

```
String contains : javat tutorial
After insertion, String value is javatpoint tutorial
```

## Example 2

Let's the simple example of insertion when subpos and sublen are given.

```cpp
#include<iostream>

using namespace std;

int main()

{

string str1 = "C++  is a language";

string str2 = "programming";

cout<<"String contains :" <<str1<<'\n';

cout<<"After insertion, String is :"<< str1.insert(9,str2,0,11);

return 0;

}
```

**Output:**

```
String contains: C++ is a language
⇧ SCROLL TO TOP    String is C++ is a programming language
```

## Example 3

Let's see the simple example of insertion when number of characters to be inserted are given.

```cpp
#include<iostream>
using namespace std;
int main()
{
string str = "Maths is favorite subject" ;
cout<<"String contains :"<<str<<'\n';
cout<<"After insertion, String contains :<<str.insert(9,"my",2);
return 0;
}
```

**Output:**

```
String contains : Maths is favorite subject
         After insertion, String contains : Maths is my favorite subject
```

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