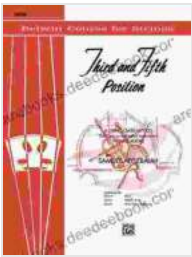


A Comprehensive Guide to 3rd and 5th Position String Building

String building is a fundamental programming technique used to concatenate multiple strings into a single string. There are two common string building techniques: 3rd position and 5th position.



3rd and 5th Position String Builder: For Violin (Belwin Course for Strings) by Samuel Applebaum

★★★★☆ 4.7 out of 5

Language : English

File size : 4261 KB

Text-to-Speech : Enabled

Word Wise : Enabled

Print length : 32 pages

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3rd Position String Building

In 3rd position string building, the new character is inserted at the third position of the string. This technique is commonly used in languages such as Java, C++, and Python.

Java

```
String str = "Hello"; str = str.substring(0, 3) + 'W' + str.substring(3)
```

C++

```
string str = "Hello"; str.insert(3, "W"); cout
```

Python

```
str = "Hello" # Insert 'W' at the 3rd position str = str[:3] + 'W' + str
```

5th Position String Building

In 5th position string building, the new character is inserted at the fifth position of the string. This technique is commonly used in languages such as C# and JavaScript.

C#

```
string str = "Hello"; str = str.Insert(5, "W"); Console.WriteLine(str);
```

JavaScript

```
let str = "Hello"; str = str.slice(0, 5) + 'W' + str.slice(5); console.log(str);
```

Hands-on Example

Let's consider a practical example where we need to build a string by inserting a character at a specific position.

Problem Statement:

You have a string "Hello" and you need to insert a character 'W' at the 3rd position.

Solution Using 3rd Position String Building:

```
java String str ="Hello";
```

```
// Insert 'W' at the 3rd position str = str.substring(0, 3) + 'W' +  
str.substring(3);
```

```
System.out.println(str); // Output: HeWllo
```

Solution Using 5th Position String Building:

```
csharp string str ="Hello";
```

```
// Insert 'W' at the 5th position str = str.Insert(5, "W");
```

```
Console.WriteLine(str); // Output: HellWlo
```

Performance Considerations

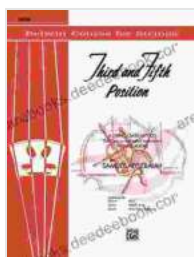
When choosing between 3rd position and 5th position string building, performance should be taken into account. In general, 3rd position string building is more efficient than 5th position string building.

When building a string using 3rd position string building, only the characters before and after the insertion point are copied. However, in 5th position string building, the entire string is copied up to the insertion point.

Therefore, if the string is large and the insertion point is close to the beginning of the string, 3rd position string building is the better choice.

3rd and 5th position string building are two common techniques for concatenating strings. 3rd position string building is more efficient than 5th position string building, especially when the string is large and the insertion point is close to the beginning of the string.

When choosing between the two techniques, consider the performance implications and select the one that best suits your specific requirements.



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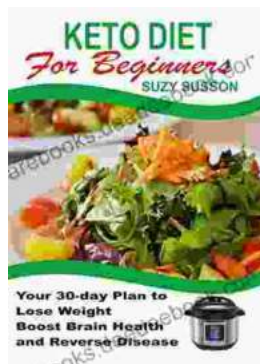
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