Solution Review: Initialize a Variable and Overwrite its Value

Let's see the detailed solution review of the challenge given in the previous lesson.

We'll cover the following

- Solution
- Explanation

Solution

```cpp
#include <iostream>

using namespace std;

int main() {
  // Initialize variable var to 5000
  int var = 5000;
  // Prints value of var
  cout << "var = " << var << endl;
  // Overwrite value of var to 1000
  var = 1000;
  // Prints new value of var
  cout << "var = " << var << endl;
}
```
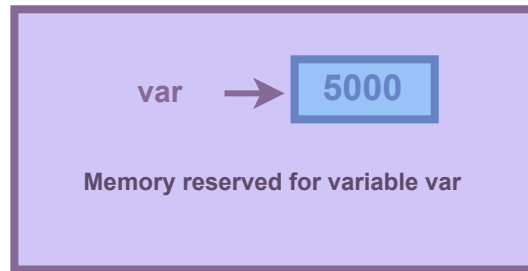
Variable initialization and declaration

Explanation

Line No. 7: Initializes a variable `var` to `5000`

variable_datatype ← int var = 5000 ; → variable_value

variable_name

Assign value to variable

var → 5000

Memory reserved for variable var

RAM

Line No. 9: Displays the value of `var`

Line No. 11: Overwrites the value of `var` to `1000`

var → 1000

Memory reserved for variable var
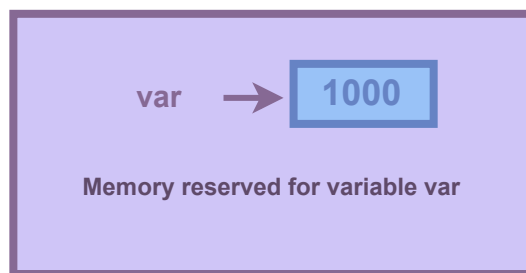
RAM

Line No. 13: Displays the updated value of `var`

Let's solve a slightly more difficult challenge in the upcoming lesson.