## Solution Review: Find out if the Given Number is a Palindrome

Let's go over the solution review of the challenge given in the previous lesson.



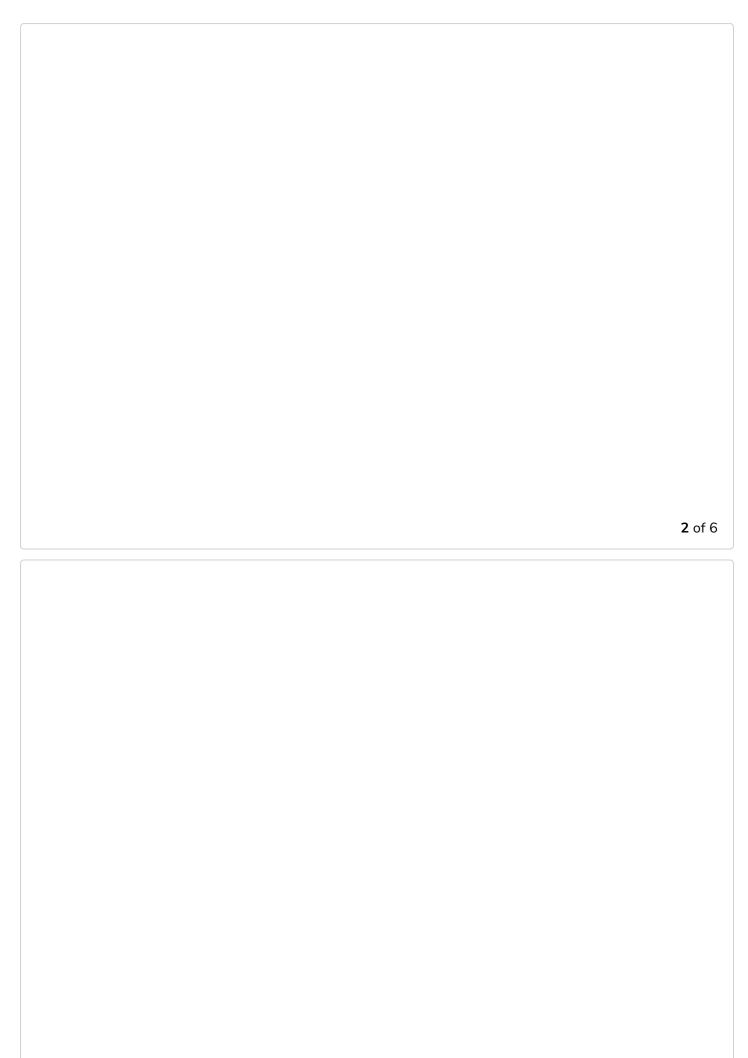
## Solution #

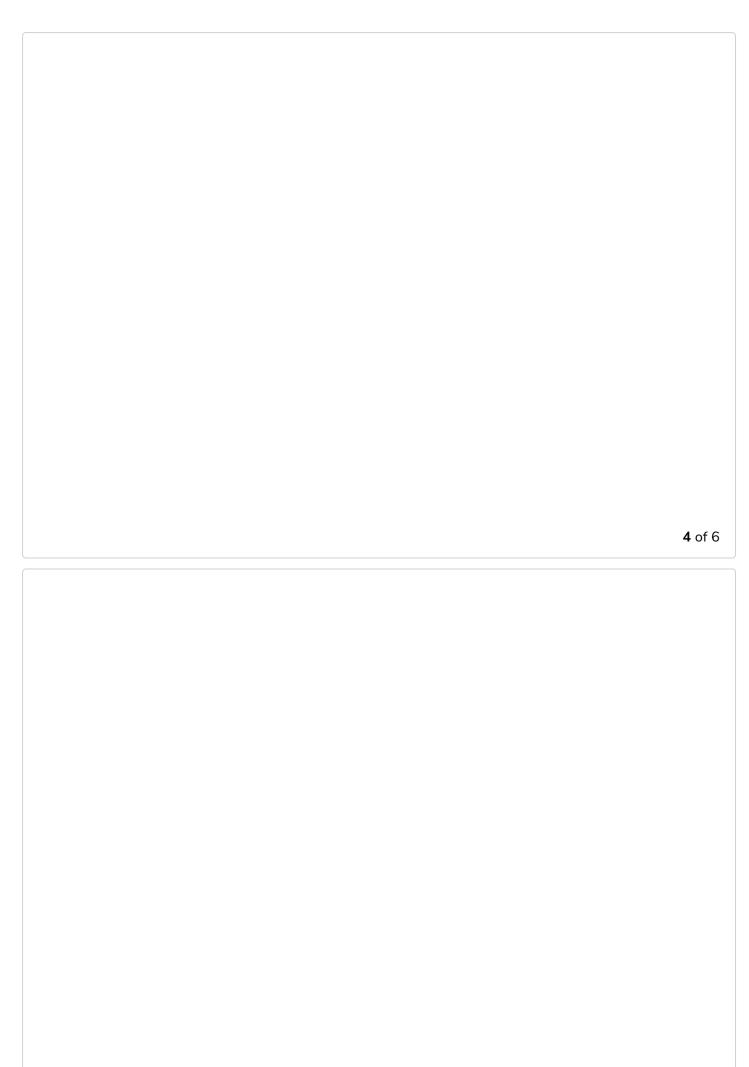
```
#include <iostream>
using namespace std;
int main() {
 // Initialize variable
 int number = 2002;
  int remainder = 0, reverse = 0;
 // To reverse a number store it in temp
 int temp = number;
 // while loop
 while (temp != 0) {
   // Get the last digit of temp
   remainder = temp % 10;
   // Store the remainder after the initially stored value in reverse
   reverse = reverse * 10 + remainder;
    // Remove the last digit of temp
    temp = temp / 10;
  // if condition
  if (number == reverse) {
    cout << "is palindrome";</pre>
  } else {
    cout << "not a palindrome";</pre>
 return 0;
```

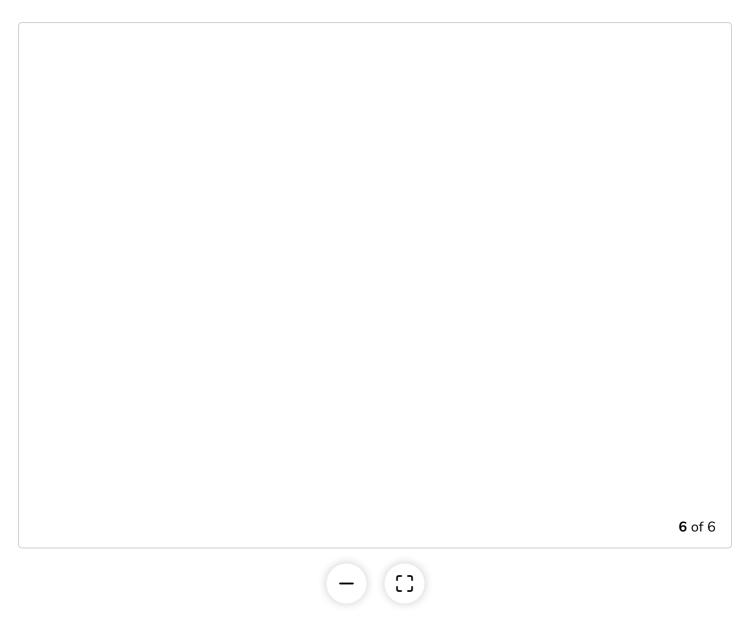


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To reverse a given <code>number</code> , we store our number in temp and then iterate through the <code>while</code> loop until the <code>temp</code> is not equal to <code>0</code> . In the body of the <code>while</code> loop, we get the last digit of <code>temp</code> and store it in the <code>remainder</code> . We add the <code>remainder</code> in <code>reverse</code> after the initially stored value in <code>reverse</code> . Then, we divide the <code>temp</code> by <code>10</code> to remove the very last digit.
number is palindrome else not.
number. If the reverse of the number is equal to the original number, then the

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Let's wrap up this chapter by solving a quiz in the upcoming lesson.