

Palindrome Number

9. Palindrome Number

Easy



Topics



Companies



Hint

Given an integer `x`, return `true` if `x` is a *palindrome*, and `false` otherwise.

Example 1:

Input: `x = 121`

Output: `true`

Explanation: 121 reads as 121 from left to right and from right to left.

Example 2:

Input: `x = -121`

Output: `false`

Explanation: From left to right, it reads -121. From right to left, it becomes 121-. Therefore it is not a palindrome.

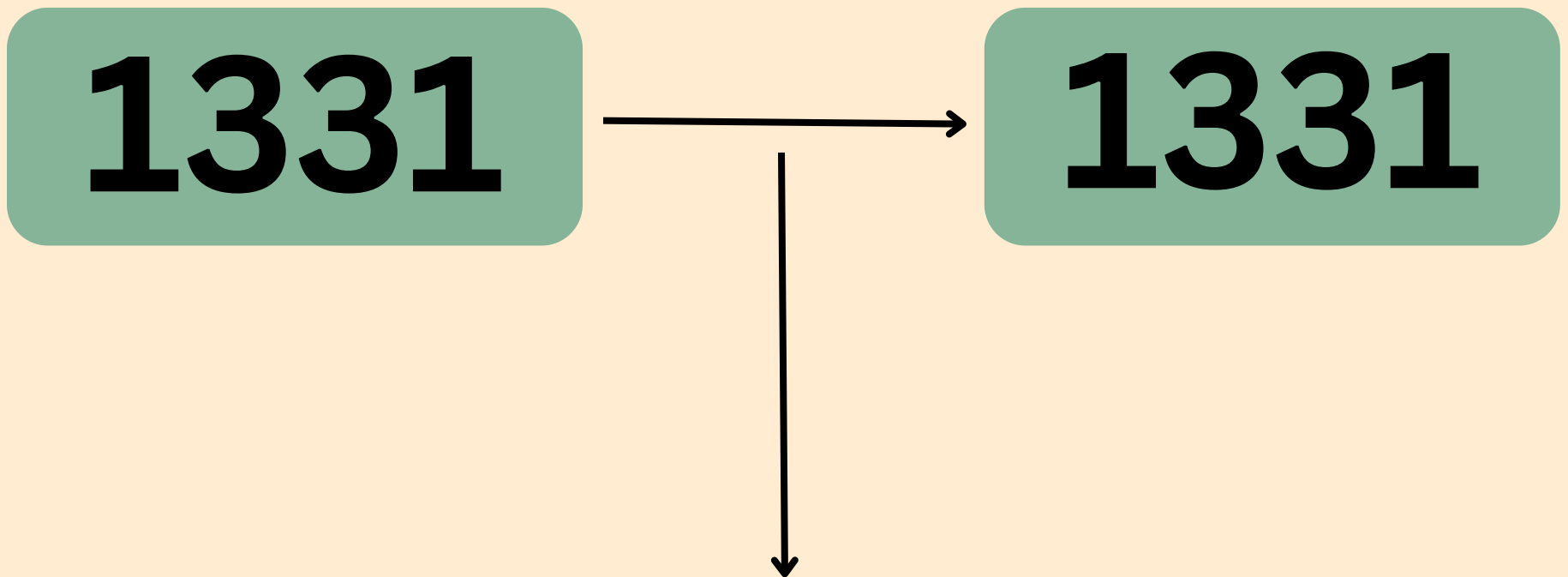
Example 3:

Input: `x = 10`

Output: `false`

Explanation: Reads 01 from right to left. Therefore it is not a palindrome.

explanation:



on reverse of this same no exist
is known as **palindrome** .

Thinking approach:

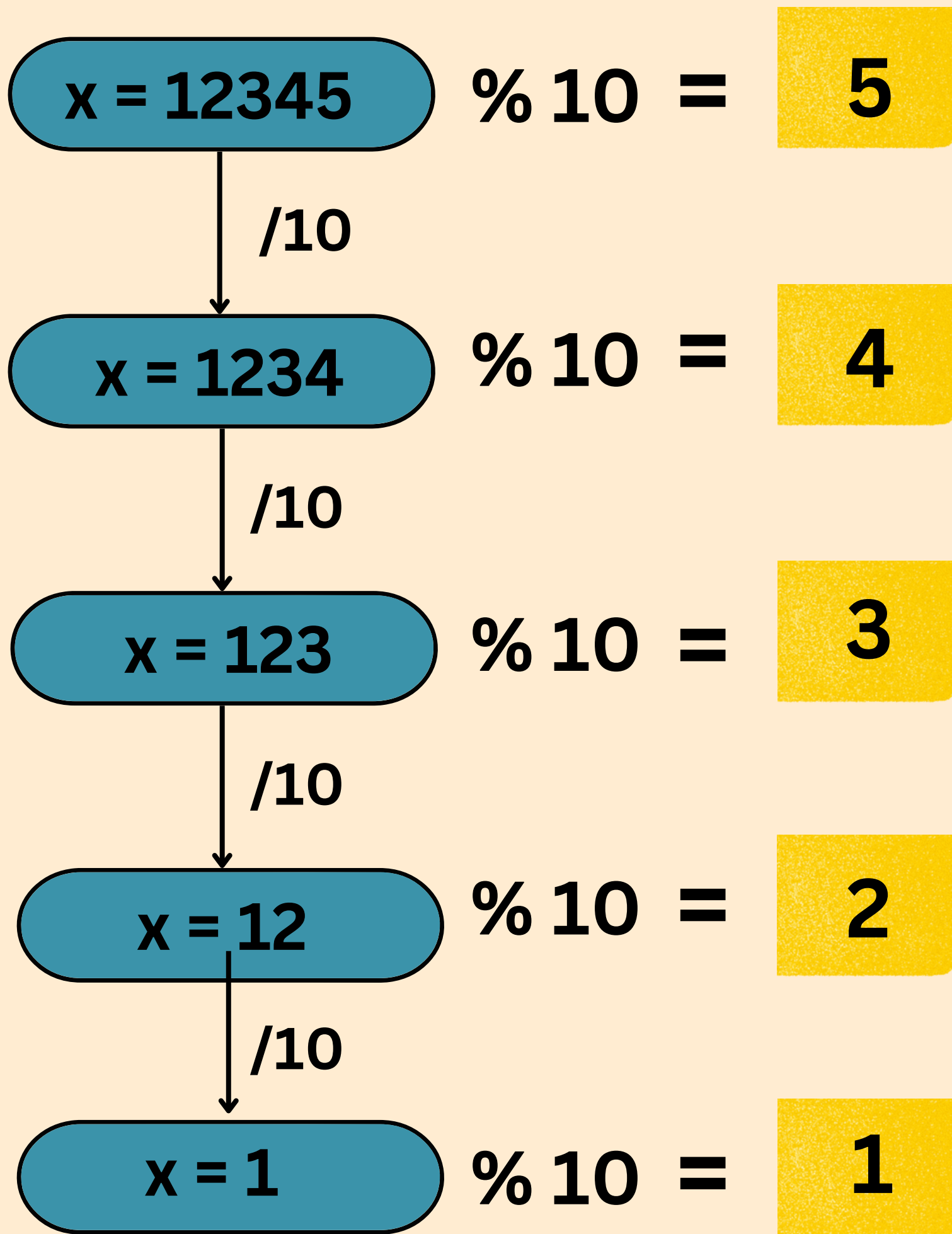
given a number, reverse of number is ***palindrome***.

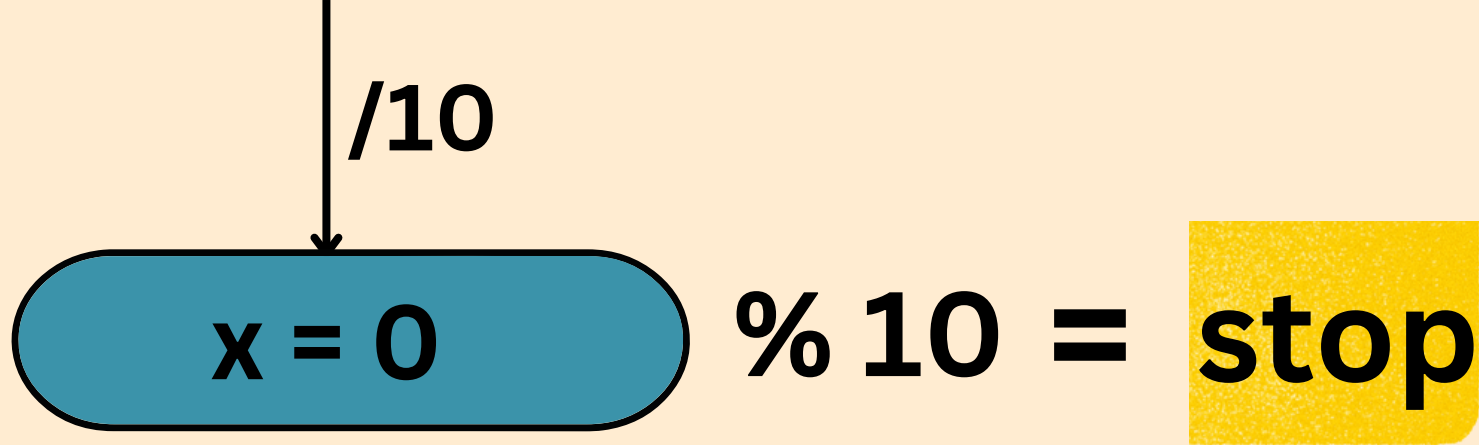
- ***so, can you generate reverse of number from given number.***
- ***after generating reverse of a number, and compare from original number.***

example:

x = 12345

- first step reverse of above number.





int rev_no = 54321

*store these no into
some variable*

let's code it:


solution below:

C++ ▾ 🔒 Auto

```
1  class Solution {
2  public:
3      bool isPalindrome(int x) {
4          if(x < 0)
5          {
6              return false;
7          }
8
9          long long rev_no = 0;
10         long long curr_no = x;
11
12         while(curr_no != 0)
13         {
14             int last_digit = curr_no % 10;
15             rev_no = rev_no * 10 + last_digit;
16             curr_no = curr_no/10;
17         }
18         if(rev_no == x)
19         {
20             return true;
21         }
22         return false;
23     }
24 };
```

code in c++

</> Code

Java ▾  Auto

```
1  class Solution {
2      public boolean isPalindrome(int x) {
3          if( x < 0)
4          {
5              return false;
6          }
7          long rev_no = 0;
8          long curr_no = x;
9
10         while(curr_no != 0)
11         {
12             int last_digit = (int) (curr_no % 10);
13             rev_no = rev_no*10 + last_digit;
14             curr_no = curr_no / 10;
15         }
16
17         if(rev_no == x)
18         {
19             return true;
20         }
21         return false;
22     }
23 }
```

code in java

Accepted Runtime: 0 ms

• Case 1

• Case 2

• Case 3

Input

x =

121

Output

true

Expected

true



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<https://www.linkedin.com/in/manish-kumar-689905213/>



manishkumar_978