❖Integer Palindrome:

Explanation: -

The integer palindrome problem involves determining whether a given integer reads the same forwards and backwards. For instance, the number 121 is a palindrome, while 123 is not. The solution typically requires handling special cases, such as negative numbers and numbers that end in zero, which cannot be palindromes unless they are zero itself.

```
Time Complexity: -O(n)
Space Complexity: - O(n)
 Start
Input Integer
Check if (number < 0 OR (number % 10 == 0 AND number != 0))
  /\
false true
Output: "false"
   Call checkPalindrome(number, number)
  In checkPalindrome(cnumber, original)
   If cnumber == 0?
```

```
| /\
| true false
 | Initialize reversed = 0
| | Loop to reverse the number
  | Check if original == reversed?
    /\
 true false
  | Output: "false"
  | v
 | Output: "true"
v v
End
```