

0009 - Palindrome Number



 121  121  abcba 







 / 2



 Python Code  / 2 

```
class Solution:
    def isPalindrome(self, x: int) -> bool:
        if x < 0:
            return False

        number_str = str(x)
        result = False
        for i in range(0, int(len(number_str) / 2)): #  0 <= x <= 9  len / 2  0
            if number_str[i] == number_str[len(number_str) - 1 - i]:
                result = True
            else:
                result = False
        return result
```

 list  list 

```

class Solution:
    def isPalindrome(self, x: int) -> bool:
        if x < 0:
            return False

        number_str = str(x)
        reverse_num = []
        for i in range(0, len(number_str), 1):
            reverse_num.append(number_str[len(number_str) - 1 - i])

        return "".join(reverse_num) == number_str

```

1111111111

Python 1111111111

- Slice

```

class Solution:
    def isPalindrome(self, x: int) -> bool:
        num_str = str(x)
        reversed_num = num_str[::-1] # Reverse slice
        return reversed_num == num_str

```

Java 1111111111111111

String 11111111

Char Array 1111111111111111

StringBuilder (1111111111)

):

```

class Solution {
    public boolean isPalindrome(int x) {
        String numStr = String.valueOf(x);
        char[] numChrArray = numStr.toCharArray();
        StringBuilder builder = new StringBuilder();

        for(int i = 0; i < numChrArray.length; i++){
            builder.append(numChrArray[numChrArray.length - 1 - i]);
        }

        return numStr.equals(builder.toString());
    }
}

```

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String.charAt() 1111111111

Char Array:

```

class Solution {
    public boolean isPalindrome(int x) {
        String numStr = String.valueOf(x);
        StringBuilder reverseNum = new StringBuilder();

        for(int i = 0; i < numStr.length(); i++){
            reverseNum.append(numStr.charAt(numStr.length() - 1 - i));
        }

        return numStr.equals(reverseNum.toString());
    }
}

```



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-
- (% 10)
-
-
- (x 10)
-
-
-



Java

```

class Solution {
    public boolean isPalindrome(int x) {
        if(x < 0){
            return false;
        }

        long temp = x;

```

```

long reversed = 0;

while(temp != 0){
    long y = temp % 10;
    reversed = reversed * 10 + y;
    temp /= 10;
}

return x == reversed;
}
}

```



- 10 10 0
-
- 10



```

class Solution {
public boolean isPalindrome(int x) {
    if((x < 0) || (x != 0 && x % 10 == 0)){ //  x  0  10  0 
        return false;
    }
    long reversed = 0;

    while(x > reversed){ //  x  10  reversed loop
        long y = x % 10;
        reversed = reversed * 10 + y;
        x /= 10;
    }

    return (x == reversed) || (x == reversed / 10); // reversed / 10

    }
}

```

Revision #2

Created 1 July 2024 02:43:47 by Nesquate

Updated 8 July 2024 03:16:38 by Nesquate