

Topics to discuss

- Palindrome or not
- Its time & space complexity.

Palindrome or not

Test case I

I/p : 12321

O/p : True

Test case II

I/p : 165

O/p : False

Test case III

I/p : 9

O/p : True

```
Static boolean solution(int a)
{
    int rev = 0;
    int temp = a;
    while (temp != 0) {
        int LastDigit = temp % 10;
        rev = rev * 10 + LastDigit;
        temp = temp / 10;
    }
    return (a == rev);
}
```

rev = 0;

#DSAWithArfin

temp = 121

$$\begin{aligned} \textcircled{1} \quad & \left\{ \begin{aligned} \text{ld} &= 121 \% 10 = 1 \\ \text{rev} &= 0 \times 10 + 1 = 1 \\ \text{temp} &= 121 / 10 = 12 \cdot 1 = 12 \end{aligned} \right. \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \left\{ \begin{aligned} \text{ld} &= 12 \% 10 = 2 \\ \text{rev} &= 1 \times 10 + 2 = 12 \\ \text{temp} &= 12 / 10 = 1 \cdot 2 = 1 \end{aligned} \right. \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \left\{ \begin{aligned} \text{ld} &= 1 \% 10 = 1 \\ \text{rev} &= 12 \times 10 + 1 = 121 \\ \text{temp} &= 1 / 10 = 0 \cdot 1 = 0 \end{aligned} \right. \end{aligned}$$

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