

1 Repeated Digit Sum

Remember:

`while(num > 9) → keep compressing number`

`Inside: %10 → /10 → ans += digit`

`End: num = ans`

Trigger word: *reduce → sum → repeat*

2 Leap Year

Remember order:

`400 ✓`

`4 && !100 ✓`

`Else ✗`

Trigger word: *400 boss, 100 blocker*

3 Reverse Integer (Safe)

Remember sequence:

`rem = n % 10`

`ans = ans*10 + rem`

**Check before 10*

Trigger word: *check → multiply → add*

4 Power of Two

Remember:

`<1 ✗`

`Odd anywhere ✗`

`End at 1 ✓`

Trigger word: *divide till 1*

5 Integer √x (No overflow)

Remember:

`✗ i*i <= x`

`✓ i <= x/i`

Trigger word: *divide beats multiply*

6 Palindrome Number

Remember:

Store x

Reverse digits

Compare rev == x

Trigger word: *mirror number*



ONE-LINE MEMORY MAP