

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:

✗ $i*i \leq x$

✓ $i \leq x/i$

Trigger word: *divide beats multiply*

Palindrome Number

Remember:

Store x

Reverse digits

Compare $rev == x$

Trigger word: *mirror number*

ONE-LINE MEMORY MAP