Topics to discuss

- Print last digit of an Integer number.
- Count the number of digit in a number
- Print sum of the digit of a number
- Its time & space complexity.

• Print last digit of an Integer Number

① Test case 1:

I/p : 1234

o/p : 4

a = 1234

```
10 ) 1234 ( 123
     12
     ---
      34
      30
      --
       4
```

```
Static int solution(int a){
    int result;
    result = a%10
    return result;
}
```

② Test case 2:

I/p : 8150

o/p : 0

• Count the number of digits in a number

① Test case 1

I/p : 1230
O/p : 4

② Test case 2

I/p : -1230
O/p : 4

③ Test case 3

I/p : 0123
O/p : 3

count = 0 1 2 3 4

① a = 1230/10 = 123.0 (int)
= 123

② a = 123/10 = 12.3 (int)
= 12

③ a = 12/10 = 1.2 (int)
= 1

④ a = 1/10 = 0.1 (int)
= 0

```
static int solution(int a){
    int count = 0;
    while (a != 0){
        a = a/10;
        count = count+1;
    }
    return count;
```

• Print sum of digits of a number

① Test case 1

I/p : 1234

o/p : 10

② Test case 2

I/p : 1230

o/p : 6

③ Test case 3

I/p : 0123

o/p : 6

sum = 0+4+3+2+1

num = 1234

① rem = 1234 % 10 = ④

num = 1234 / 10 = 123.4

= 123

② rem = 123 % 10 = ③

num = 123 / 10 = 12.3

= 12

③ rem = 12 % 10 = ②

num = 12 / 10 = 1.2 = 1

④ rem = 1 % 10 = ①

num = 1/10 = 0.1 = 0

```
static int solution(int a){
    int sum = 0;
    while (num != 0) {
        int rem;
        rem = num % 10;
        sum = sum + rem;
        num = num / 10;
    }
    return sum;
```

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i._am._arfin

Arfin Parween