lawer, Doctor, Civil Eng., Mechan, software, internet provider

Doctor → Requi → output

```java
public static void digitsOfNumber(int num) {
    int len = countDigitOfNumber(num) - 1;
    while (len >= 0) {
        int digit = num / (int) Math.pow(10, len);
        num = num % (int) Math.pow(10, len);
        System.out.println(digit);
        len--;
    }
}
```

1 month, Loops (Condition) → IP

① Return type (R), Arguments (A)

R	A	
×	×	(2)
✓	×	(2)
×	✓	(2)
✓	✓	

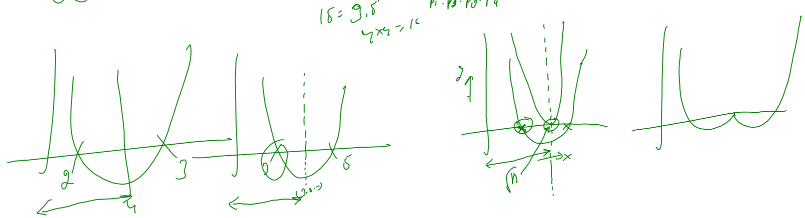
print 2

$15 \% 3 = 0$

$15 \% 5 = 0$

$15 = 3^1 \cdot 5^1$

$p_1^a \cdot p_2^b \cdot p_3^c \cdot p_4^d$



(x) 2683456/10 → ⑥

268345/10 → ⑤

26834/10 → ④

2683/10 → ③ , 268/10 → ⑧ , 26/10 → ⑥ , 2/10 → ② → 0

(x) 2683456 , ans = 0 (ans = ans×10 + digit)

2683456 ↓ 6	ans = 0×10 + 6 = 6
268345 ↓ 5	ans = 6×10 + 5 = 65
26834 ↓ 4	ans = 65×10 + 4 = 654
2683 ↓ 3	ans = 654×10 + 3 = 6543
268 ↓ 8	ans = 6543×10 + 8 = 65438
26 ↓ 6	ans = 65438×10 + 6 = 654386
2 ↓ 2 → 0	ans = 654386×10 + 2 = 6543862

```java
public static int countDigitOfNumber(int num) {
    int count = 0;
    while (num != 0) {
        num /= 10;
        count++;
    }
    return count;
}

public static void digitsOfNumber(int num) {
    int len = countDigitOfNumber(num) - 1;
    while (len >= 0) {
        int digit = num / (int) Math.pow(10, len);
        num = num % (int) Math.pow(10, len);
        System.out.println(digit);
        len--;
    }
}
```

(1)

1001 , len = 4-1 = 3 , ans = 0

$1001 / 10^3 = 1$	ans = 0×10 + 0 = 0
$001 / 10^2 = 0$	ans = 0×10 + 0 = 0
$01 / 10^1 = 0$	ans = 0×10 + 8 = 8
$1 / 10^0 = 1$	ans = 8×10 + 6 = 86
0	ans = 86×10 + 2 = 862