

Divide n by 2 3 5 and tell steps

Take a natural number **n** as an integer input, and variable steps of integer type as input. Then perform the following operations on it.

- If the number is **divisible** by **2**, then keep on **dividing** the number **n** by **2**, till the time the number is **divisible by 2** and also **increment** the variable steps by **2**, each time you divide the number by **2**.
- Also, check If the number is **divisible** by **3**, then keep on dividing the number **n** by **3**, till the time the number is **divisible** by **3** and also increment the variable steps by **3**, each time you **divide** the number by **3**.
- Also, If the number is **divisible** by **5**, then keep on **dividing** the number **n** by **5**, till the time the number is **visible** by **5** and also **increment** the variable steps by **5**, each time you divide the number by **5**.

In the end print the value of the variable steps in the first line and final value of number **n** in the second line.

Input Format

For each test case, **n** will be given in the first line,
steps will be given in the second line.

Constraints

```
1 <= n <= 2^31-1  
-2^31 <= steps <= 2^31-1
```

Output Format

Print the final value of steps in the first line as an integer output,
and print the final remaining value of **n** in the second line as an integer output.

Sample Input 0

```
30  
0
```

Sample Output 0

```
10  
1
```

Sample Input 1

100
20

Sample Output 1

34
1

Sample Input 2

210
7

Sample Output 2

17
7

Sample Input 3

243
0

Sample Output 3

15
1

Sample Input 4

700
0

Sample Output 4

14
7