

Problem 625: Minimum Factorization

Problem Information

Difficulty: Medium

Acceptance Rate: 33.85%

Paid Only: Yes

Tags: Math, Greedy

Problem Description

Given a positive integer num, return _the smallest positive integer_`x` _whose multiplication of each digit equals_`num`. If there is no answer or the answer is not fit in **32-bit** signed integer, return `0`.

Example 1:

Input: num = 48 **Output:** 68

Example 2:

Input: num = 15 **Output:** 35

Constraints:

* `1 <= num <= 2³¹ - 1`

Code Snippets

C++:

```
class Solution {
public:
    int smallestFactorization(int num) {
    }
```

```
};
```

Java:

```
class Solution {  
    public int smallestFactorization(int num) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def smallestFactorization(self, num: int) -> int:
```