

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:
```