Problem 254: Factor Combinations

Problem Information

Difficulty: Medium
Acceptance Rate: 50.42%
Paid Only: Yes
Tags: Backtracking

Problem Description

Numbers can be regarded as the product of their factors.

* For example, `8 = 2 x 2 x 2 = 2 x 4`.

Given an integer `n`, return _all possible combinations of its factors_. You may return the answer in **any order**.

Note that the factors should be in the range `[2, n - 1]`.

Example 1:

Input: n = 1 **Output:** []

Example 2:

Input: n = 12 **Output:** [[2,6],[3,4],[2,2,3]]

Example 3:

Input: n = 37 **Output:** []

Constraints:

* `1 <= n <= 107`

Code Snippets

C++:

```
class Solution {
public:
vector<vector<int>> getFactors(int n) {

}
};
```

Java:

```
class Solution {
public List<List<Integer>> getFactors(int n) {

}
}
```

Python3:

```
class Solution:
def getFactors(self, n: int) -> List[List[int]]:
```