

LeetCode

Explore

Problems

Interview

Contest

Discuss

Store

🔔

🔥 1

👤

Description

Solution

Discuss (338)

Submissions

254. Factor Combinations

Medium

👍 1012

🗨 60

🤍 Add to List

🔗 Share

Numbers can be regarded as the product of their factors.

- For example, $8 = 2 \times 2 \times 2 = 2 \times 4$.

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:

- $1 \leq n \leq 10^7$

Accepted 117,176

Submissions 239,587

Seen this question in a real interview before?

Yes

No

Companies

🔒 i

Related Topics

Similar Questions

i

C++

▼

Autocomplete

i

{ }

↺

↻

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

```
class Solution {
public:
    void
    getResult(vector<vector<int>>&res, vector<int>&factors, int n, int start)
    {
        for(int i=start; i<=n/i; i++)
        {
            if(n%i==0)
            {
                factors.push_back(i);
                factors.push_back(n/i);
                res.push_back(factors);
                factors.pop_back();
                getResult(res, factors, n/i, i);
                factors.pop_back();
            }
        }
        vector<vector<int>>
    getFactors(int n)
    {
        vector<vector<int>> res;
        vector<int> factors;
        getResult(res, factors, n, 2);
        return res;
    }
};
```

NEW

Testcase

Run Code Result

Debugger 🔒

▼

Wrong Answer

Runtime: 0 ms

🔍

Your input

102020

Output

[[2,51010],
[2,2,25505],
[2,2,25505]]

Diff

Expected

[[2,51010],[4,25505],
[2,2,25505],[5,20404],
[2,2,25505]]

Use Example Testcases

🔍

▶ Run Code ^

Submit

🔑 Problems

✖ Pick One

< Prev

254/2509

Next >

https://leetcode.com/problems/factor-combinations/

