

254. Factor Combinations

Medium 554 25 Add to List Share

Numbers can be regarded as product of its factors. For example,

```
8 = 2 x 2 x 2;  
  = 2 x 4.
```

Write a function that takes an integer n and return all possible combinations of its factors.

Note:

1. You may assume that n is always positive.
2. Factors should be greater than 1 and less than n .

Example 1:

```
Input: 1  
Output: []
```

Example 2:

```
Input: 37  
Output: []
```

Example 3:

```
Input: 12  
Output:  
[  
  [2, 6],  
  [2, 2, 3],  
  [3, 4]  
]
```

Example 4:

```
Input: 32  
Output:  
[  
  [2, 16],  
  [2, 2, 8],  
  [2, 2, 2, 4],  
  [2, 2, 2, 2, 2],  
  [2, 4, 4],  
  [4, 8]  
]
```

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Seen this question in a real interview before?

Yes

No

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```
1 class Solution(object):  
2     def getFactors(self, n):  
3         """  
4             :type n: int  
5             :rtype: List[List[int]]  
6         """  
7
```