

>+

■ Description

**Solution** 

□ Discuss (636)

**Submissions** 

i C#

## 1492. The kth Factor of n

You are given two positive integers  $\, n \,$  and  $\, k \,$ . A factor of an integer  $\, n \,$  is defined as an integer  $\, i \,$  where  $\, n \,$ %  $\, i \,$  == 0 .

Consider a list of all factors of n sorted in **ascending order**, return *the*  $k^{th}$  *factor* in this list or return -1 if n has less than k factors.

# Example 1:

**Input:** n = 12, k = 3

Output: 3

Explanation: Factors list is [1, 2, 3, 4, 6, 12], the 3<sup>rd</sup> factor is

3.

### **Example 2:**

**Input:** n = 7, k = 2

Output: 7

**Explanation:** Factors list is [1, 7], the 2<sup>nd</sup> factor is 7.

#### **Example 3:**

**Input:** n = 4, k = 4

Output: -1

**Explanation:** Factors list is [1, 2, 4], there is only 3 factors. We

should return -1.

#### **Constraints:**

• 1 <= k <= n <= 1000

Accepted 72,917 Submissions 117,157

Seen this question in a real interview before?

Yes

≡ Problems × Pick One

< Prev

No

27/30

Next >

Console -

▶ Run Code ^

Use Example Testcase

Subm

{} 1 ▼ public class Solution { 2 ▼ public int KthFacto int k) { var factors = n 3 List<int>() {1}; 4 5 var start = 2; 6 if( n %2 == 1) 7 ▼ { 8 start = 3;9 10 11 for(var i = sta n; i++)12 ▼ { 13 if(n % i == 14 ▼ 15 factors 16 if(factors. 17 k) 18 ▼ { 19 break; 20 21 } 22 return factors. ? factors[k-1] : -1; 23 } 24 } Run Code Result Testcase Accepted Runtime: 56 ms 12 Your input 3 3 Output Expected 3