

Premium





Description

6 Editorial

Solutions (1.8K)

Submissions

## 1492. The kth Factor of n

Hint  $\odot$ 

Companies

You are given two positive integers [n] and [k]. A factor of an integer [n] is defined as an integer [n] 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.

```
i Java ∨
            Auto
   1 class Solution {
     ....public int kthFactor(int n, int k) {
   3 ·····ArrayList<Integer>·factorsList·=·factors(·n·);
      ....System.out.println(factorsList);
      ·····if·(·factorsList.size()·>=·k·)·{
      ·····return·factorsList.get(k-1);
      .....}
      ·····else·{
      ·····-1;
      . . . . . . . . }
  10
  11
  12
      • • • • }
  13
      ....private ArrayList Integer - factors( int n ) {
  14
      .....ArrayList<Integer>·factorsList·=·new·ArrayList<>();
  16
  17 ······for·(·int·i·=·1;·i·<=·n;·i++·)·{
     ·····if·(·n·%·i·==·0·)·{
     ....factorsList.add(i);
   20 .....
  21 .....
--NORMAL--
                                                              Ln 26, Col 2
  Testcase
          Result
                                                                     Accepted Runtime: 0 ms
                Case 2
                           Case 3
     Case 1
  Input
 Console ~
                                                       Run
                                                                Submit
```