

Skills: Problem Solving (Basic) ⓘ

⌚ Recommended Time: 28 mins 🏆 Points: 50 ✓ 13 test cases (5 samples)

Coding



EASY

Data Structures

Algorithms

Problem Solving

Arrays

Interviewer Guidelines

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the p^{th} element of the list, sorted ascending. If there is no p^{th} element, return 0.

Example

 $n = 20$ $p = 3$

The factors of 20 in ascending order are {1, 2, 4, 5, 10, 20}. Using 1-based indexing, if $p = 3$, then 4 is returned. If $p > 6$, 0 would be returned.

Function Description

Complete the function *pthFactor* in the editor.

pthFactor has the following parameter(s):

long int n: the integer whose factors are to be found

long int p: the index of the factor to be returned

Returns:

long int: the value of the p^{th} integer factor of n or, if there is no factor at that index, then 0 is returned