**6 kyu**

**Simple Fun #231: Kth Divisor**

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JavaScript

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**Task**

Given integers n and k, find the kth divisor (1-based) of n or determine if n has less than k divisors(return -1).

**Input/Output**

[input] integer n

5 ≤ n ≤ 10^8.

[input] integer k

1 ≤ k ≤ 20.

[output] an integer

The kth divisor of n or -1 if n has less than k divisors.

**Example**

For n = 63 and k = 4, the output should be 9.

Divisors of number 63 are the following: 1, 3, 7, 9, 21, 63.

For n = 5 and k = 3, the output should be -1.

Number 5 has only 2 divisors.

<https://www.codewars.com/kata/5907f258d296b7cc7b000053/solutions/javascript>

[cheeze](https://www.codewars.com/users/cheeze)

**function kthDivisor(n, k) {**

**var A = [];**

**for (var i = 1; i <= n; i++) {**

**if (n % i == 0) A.push(i)**

**if (A.length > k) break;**

**}**

**return A[k-1] ? A[k-1] : -1**

**}**

<script>

function divisores(n)

{

var div = [] ;

for (let i = 1; i \* i <= n; i++)

{

if (n % i == 0)

{

div.push(i);

if (n / i != i)

{

div.push(n / i);

}

}

}

div.sort(function(a, b){return a-b});

return div;

}

function kthDivisor(n, k)

{

var div = divisores(n);

if (k < div.length) return div[k-1];

return -1;

}

document.write(kthDivisor(63,4));

</script>