1735. Count Ways to Make Array With Product

Description

You are given a 2D integer array, `queries`. For each `queries[i]`, where `queries[i] = [n_i, k_i]`, find the number of different ways you can place positive integers into an array of size `n_i` such that the product of the integers is `k_i`. As the number of ways may be too large, the answer to the `i^th` query is the number of ways **modulo** `10^9 + 7`.

Return *an integer array* `answer` *where* `answer.length == queries.length`, *and* `answer[i]` *is the answer to the* `i^th` *query.*

Example 1:

```
Input: queries = [[2,6],[5,1],[73,660]]
Output: [4,1,50734910]
Explanation: Each query is independent.
[2,6]: There are 4 ways to fill an array of size 2 that multiply to 6: [1,6], [2,3], [3,2], [6,1].
[5,1]: There is 1 way to fill an array of size 5 that multiply to 1: [1,1,1,1,1].
[73,660]: There are 1050734917 ways to fill an array of size 73 that multiply to 660. 1050734917 modulo 10^9 + 7 = 50734910.
```

Example 2:

```
Input: queries = [[1,1],[2,2],[3,3],[4,4],[5,5]]
Output: [1,2,3,10,5]
```

Constraints:

- `1 <= queries.length <= 10^4`
- `1 <= n_i, k_i <= 10^4`