16/11/2017 HackerRank



P-sequences





We call a sequence of N natural numbers $(a_1, a_2, ..., a_N)$ a *P-sequence*, if the product of any two adjacent numbers in it is not greater than *P*. In other words, if a sequence $(a_1, a_2, ..., a_N)$ is a *P-sequence*, then $a_i * a_{i+1} \le P \ \forall \ 1 \le i < N$

You are given N and P. Your task is to find the number of such *P-sequences* of N integers modulo $10^9 + 7$.

Input Format

The first line of input consists of $\, N \,$ The second line of the input consists of $\, P \,$.

Constraints

 $2 \le N \le 10^3$

 $1 \le P \le 10^9$ $1 \le a_i$

Output Format

Output the number of *P-sequences* of N integers modulo 10^9+7 .

Sample Input

2

Sample Output

3

Explanation

3 such sequences are {1,1},{1,2} and {2,1}

f in
Submissions:464
Max Score:100
Difficulty: Hard
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```
1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
 9 ₹
       public static void main(String[] args) {
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
12 }
                                                                                                    Line: 1 Col: 1
Run Code
                                                                                                     Submit Code
```

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