

372. Super Pow

Description

Your task is to calculate $a^b \bmod 1337$ where a is a positive integer and b is an extremely large positive integer given in the form of an array.

Example 1:

Input: $a = 2, b = [3]$
Output: 8

Example 2:

Input: $a = 2, b = [1,0]$
Output: 1024

Example 3:

Input: $a = 1, b = [4,3,3,8,5,2]$
Output: 1

Constraints:

- $1 \leq a \leq 2^{31} - 1$
- $1 \leq b.length \leq 2000$
- $0 \leq b[i] \leq 9$
- b does not contain leading zeros.

