Your task is to calculate ab mod 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

**Example 4:**

**Input:** a = 2147483647, b = [2,0,0]

**Output:** 1198

**Constraints:**

* 1 <= a <= 231 - 1
* 1 <= b.length <= 2000
* 0 <= b[i] <= 9
* b doesn't contain leading zeros.