Problem 372: Super Pow

Problem Information

Difficulty: Medium
Acceptance Rate: 36.05%
Paid Only: No
Tags: Math, Divide and Conquer

Problem Description

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

Constraints:

* `1 <= a <= 231 - 1` * `1 <= b.length <= 2000` * `0 <= b[i] <= 9` * `b` does not contain leading zeros.

Code Snippets

C++:

```
class Solution {
public:
int superPow(int a, vector<int>& b) {

}
};
```

Java:

```
class Solution {
public int superPow(int a, int[] b) {

}
}
```

Python3:

```
class Solution:
def superPow(self, a: int, b: List[int]) -> int:
```