You have an initial power P, an initial score of 0 points, and a bag of tokens.

Each token can be used at most once, has a value token[i], and has potentially two ways to use it.

* If we have at least token[i] power, we may play the token face up, losing token[i] power, and gaining 1 point.
* If we have at least 1 point, we may play the token face down, gaining token[i] power, and losing 1 point.

Return the largest number of points we can have after playing any number of tokens.

**Example 1:**

**Input:** tokens = [100], P = 50

**Output:** 0

**Example 2:**

**Input:** tokens = [100,200], P = 150

**Output:** 1

**Example 3:**

**Input:** tokens = [100,200,300,400], P = 200

**Output:** 2

**Note:**

1. tokens.length <= 1000
2. 0 <= tokens[i] < 10000
3. 0 <= P < 10000