

You start with an initial **power** of power, an initial **score** of 0, and a bag of tokens given as an integer array tokens, where each tokens[i] donates the value of token_i.

Your goal is to **maximize** the total **score** by strategically playing these tokens. In one move, you can play an **unplayed** token in one of the two ways (but not both for the same token):

- Face-up: If your current power is at least tokens[i], you may play token_i, losing tokens[i] power and gaining 1 score.
- Face-down: If your current score is at least 1, you may play token_i, gaining tokens[i] power and losing 1 score.

Return the maximum possible score you can achieve after playing any number of tokens.

Example 1:

```
Input: tokens = [100], power = 50
Output: 0
```

Explanation: Since your score is 0 initially, you cannot play the token face-down. You also cannot play it face-up since your power (50) is less than tokens [0] (100).

```
class Solution {
  func bagOfTokensScore(_ tokens: [Int], _ power: Int) -> Int {
    var pow = power
    var count = 0
    var ans = count
    var 1 = 0
    var r = tokens.count - 1

let to = tokens.sorted()
    while(1<=r) {
        if(to[1] <= pow ) {
            pow = pow - to[1]
            count = count + 1
            ans = max(ans,count)
            1 = 1 + 1
        } else if(count > 0) {
```

```
count = count - 1
    ans = max(ans,count)
    pow = pow + to[r]
    r = r - 1
} else {
    break
}

return ans
}
```