

5464. Water Bottles

[My Submissions \(/contest/weekly-contest-198/problems/water-bottles/submissions/\)](/contest/weekly-contest-198/problems/water-bottles/submissions/)

[Back to Contest \(/contest/weekly-contest-198/\)](/contest/weekly-contest-198/)

Given `numBottles` full water bottles, you can exchange `numExchange` empty water bottles for one full water bottle.

The operation of drinking a full water bottle turns it into an empty bottle.

Return the **maximum** number of water bottles you can drink.

User Accepted: 46

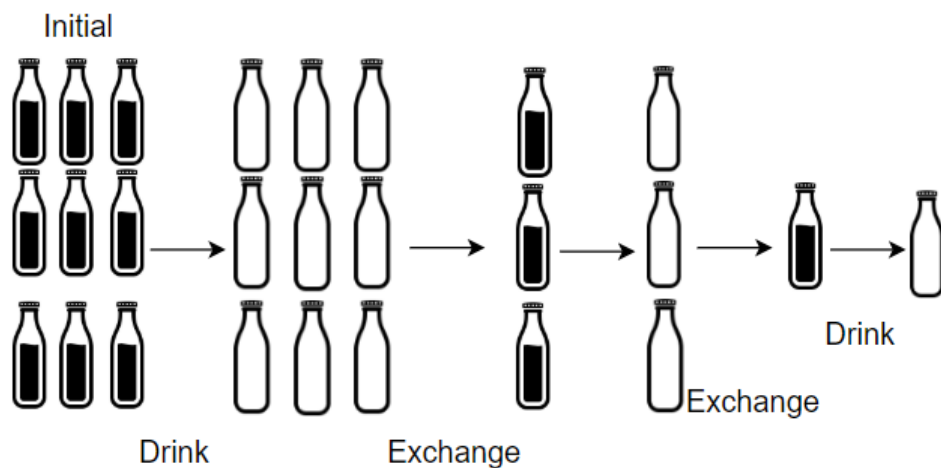
User Tried: 74

Total Accepted: 46

Total Submissions: 75

Difficulty: Easy

Example 1:



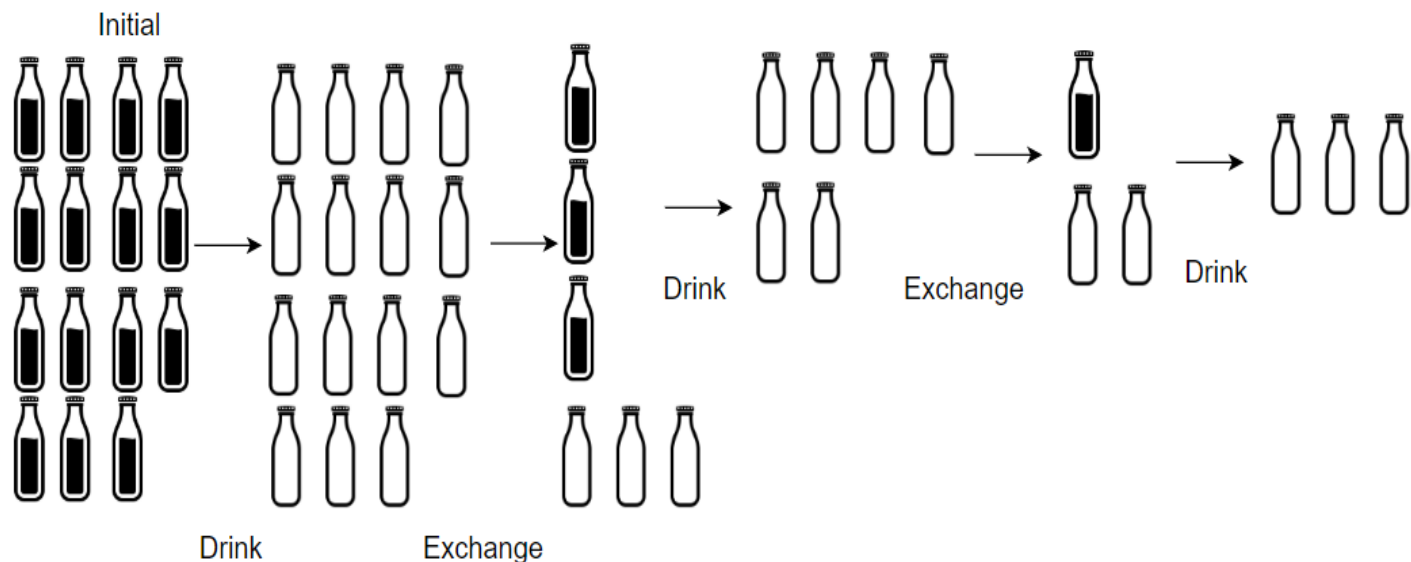
Input: `numBottles = 9, numExchange = 3`

Output: 13

Explanation: You can exchange 3 empty bottles to get 1 full water bottle.

Number of water bottles you can drink: $9 + 3 + 1 = 13$.

Example 2:



Input: numBottles = 15, numExchange = 4

Output: 19

Explanation: You can exchange 4 empty bottles to get 1 full water bottle.
Number of water bottles you can drink: $15 + 3 + 1 = 19$.

Example 3:

Input: numBottles = 5, numExchange = 5

Output: 6

Example 4:

Input: numBottles = 2, numExchange = 3

Output: 2

Constraints:

- $1 \leq \text{numBottles} \leq 100$
- $2 \leq \text{numExchange} \leq 100$

JavaScript



```

1  /**
2   * @param {number} numBottles
3   * @param {number} numExchange
4   * @return {number}
5   */
6  var numWaterBottles = function(numBottles, numExchange) {
7
8  };

```

☐ **Custom Testcase**[Use Example Testcases](#)[▶ Run](#)[📁 Submit](#)

Copyright © 2020 LeetCode

[Help Center \(/support/\)](#) | [Terms \(/terms/\)](#) | [Privacy Policy \(/privacy/\)](#)

 [United States \(/region/\)](#)