881. Boats to Save People

Medium 1975 56 Add to List Share

You are given an array `people` where `people[i]` is the weight of the i^{th} person, and an **infinite number of boats** where each boat can carry a maximum weight of `limit`. Each boat carries at most two people at the same time, provided the sum of the weight of those people is at most `limit`.

Return *the minimum number of boats to carry every given person.*

Example 1:

```
Input: people = [1,2], limit = 3
Output: 1
Explanation: 1 boat (1, 2)
```

Example 2:

```
Input: people = [3,2,2,1], limit = 3
Output: 3
Explanation: 3 boats (1, 2), (2) and (3)
```

Example 3:

```
Input: people = [3,5,3,4], limit = 5
Output: 4
Explanation: 4 boats (3), (3), (4), (5)
```

Constraints:

- `1 <= people.length <= 5 * 10^4`
- `1 <= people[i] <= limit <= 3 * 10^4`

Accepted 101,118 Submissions 199,744

Seen this question in a real interview before? Yes No

```java
class Solution {
    public int numRescueBoats( int[] people, int limit ) {

        Arrays.sort(people);

        int currentLightest = 0;
        int numberOfBoats = 0;
        int currentHeaviest = people.length - 1;

        while (currentLightest <= currentHeaviest) {

            numberOfBoats++;

            if (people[currentHeaviest] + people[currentLightest] <= limit)
                currentLightest++;

            currentHeaviest--;
        }

        return numberOfBoats;
    }
}
```

Testcase Run Code Result Debugger

Accepted Runtime: 0 ms

Your input
```
[1,2]
3
```

Output 1

Diff

Expected 1