

# Problem 881: Boats to Save People

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 60.97%

**Paid Only:** No

**Tags:** Array, Two Pointers, Greedy, Sorting

## Problem Description

You are given an array `people` where `people[i]` is the weight of the `ith` 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`

## Code Snippets

**C++:**

```
class Solution {  
public:  
    int numRescueBoats(vector<int>& people, int limit) {  
        }  
    };
```

**Java:**

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

**Python3:**

```
class Solution:  
    def numRescueBoats(self, people: List[int], limit: int) -> int:
```