구명보트

# Index	42885
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* Status	Done
<pre> Status Tags </pre>	Greedy Python

References

```
https://school.programmers.co.kr/learn/courses/30/lessons/42885
```

References

1. Greedy Algorithm

1. Greedy Algorithm

1.1. Solution 1

```
import collections
def solution(people, limit):
    num_weight = dict()
    for p in people:
        num_weight[p] = num_weight.get(p, 0) + 1
   result = 0
   weights = collections.deque(sorted(num_weight.keys()))
    while weights:
       cur = weights.pop()
        while weights and num\_weight[cur] > 0 and weights[0] <= limit - cur:
            w = weights.popleft()
            move = min(num_weight[cur], num_weight[w])
            result += move
            num_weight[cur] -= move
            num_weight[w] -= move
            if num_weight[w]:
                weights.appendleft(w)
```

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```
if num_weight[cur]:
    if 2 * cur <= limit:
        move = num_weight[cur] // 2
        result += move
        num_weight[cur] -= move * 2
    result += num_weight[cur]
    num_weight[cur] = 0

return result</pre>
```

1.2. Solution 2

```
def solution(people, limit):
    people.sort()
    pair = 0

a = 0
b = len(people) - 1
while a < b:
    if people[a] + people[b] <= limit:
        pair += 1
        a += 1
    b -= 1

return len(people) - pair</pre>
```

구명보트 2