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Lab 7

Question 2:

A list that fits this criteria is [1,3,5,4,2,0]
On every call to partition method , the pivot ends up at the start and there are no values smaller than it.

```
before[1, 3, 5, 4, 2, 0]
5
[5, 3, 1, 4, 2, 0]
4
[4, 1, 3, 2, 0, 5]
3
[3, 1, 2, 0, 4, 5]
2
[2, 1, 0, 3, 4, 5]
1
[1, 0, 2, 3, 4, 5]
after[0, 1, 2, 3, 4, 5]
```

Question 3:

Assuming the target is 5, the value of mid is: 3.

Assuming the target is -3 the value of mid is: 1.

Assuming the target is 15 the value of mid is -1.

Assuming the target is 99, the value of mid is 7.

Assuming the target is 200, the value of mid is -1

```
target is 5. Mid is: 3
target is -3. Mid is: 1
target is 15. Mid is: -1
target is 99. Mid is: 7
target is 200. Mid is: -1


Process finished with exit code 0
```