134. Gas Station

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• Greedy

Description

There are N gas stations along a circular route, where the amount of gas at station i is gas[i].

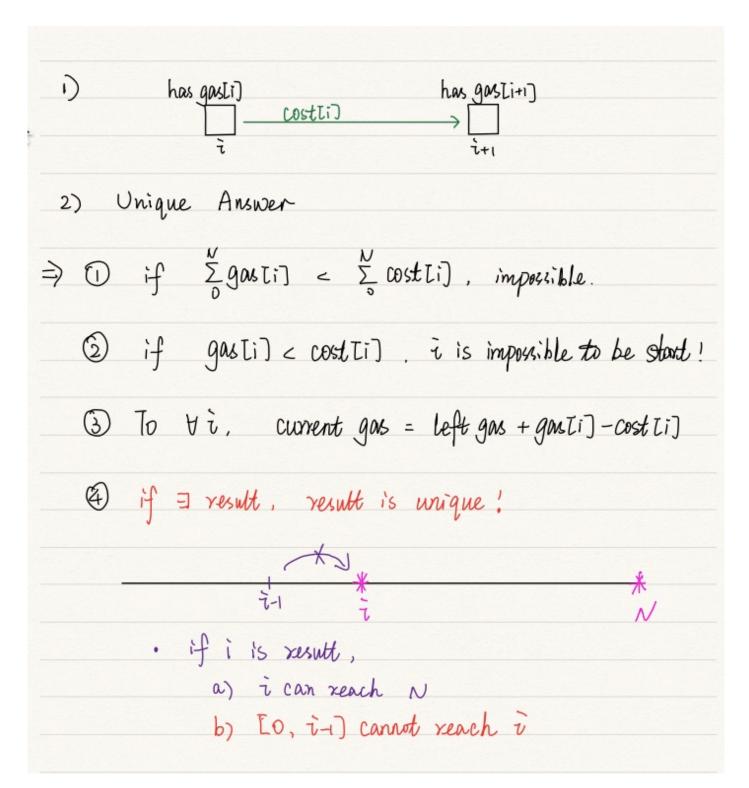
You have a car with an unlimited gas tank and it costs cost[i] of gas to travel from station *i* to its next station (*i*+1). You begin the journey with an empty tank at one of the gas stations.

Return the starting gas station's index if you can travel around the circuit once, otherwise return -1.

Note:

The solution is guaranteed to be unique.

1. Thought line



2. Greedy

```
class Solution {
public:
    int canCompleteCircuit(vector<int>& gas, vector<int>& cost) {
        int candidateRes = 0;
        int curGas = 0, netGas = 0;
        int curGas = 0;
        int curGas = gas.size()-1; ++i) {
            netGas += gas[i] - cost[i];
            curGas += gas[i] - cost[i];
        if (curGas<0) {
            curGas = 0;
            candidateRes = i+1;
        }
}</pre>
```

```
if (netGas<0) return -1;
return candidateRes;
}
};</pre>
```