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Gas Station / Share my Java concise solution and thoughts 

Share my Java concise solution and thoughts



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Actually, you can take gas and cost as a line chart, gas as upward segments while cost as downward ones. They just appear one by one like:

All we need to do is to find the lowest point as our starting line.

Here's my solution with one pass and $O(1)$ space.

```
public class Solution {
    public int canCompleteCircuit(int[] gas, int[] cost) {
        int sum = 0, minGas = 0, index = 0;
        for (int i=0; i<gas.length; ++i) {
            sum += gas[i]-cost[i];
```

```
        if (sum<minGas) {
            minGas = sum;
            index = i+1;
        }
    }
    return sum>=0?(index==gas.length?0:index):-1;
}
```



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