

find pivot index

[1, 7, 3, 6, 5, 6]

i

0	27
1	27
8	17
11	11

pivot = -1

leftSum = 0

```

for (i = 0; i < n; i++) {
    RightSum = 0
    for (j = i + 1; j < n; j++) {
        RightSum += arr[j]
    }
    if (leftSum == RightSum) {
        pivot = i
        break
    }
    leftSum += arr[i]
}
return pivot - 1

```

[1, 7, 3, 6, 5, 6]

0 1 2 3 4 5

total = 28

LeftSum = 0 + 7 + 3 + 6 + 5 + 6

27 = 28 - 0 - 1
 20 = 28 - 1 - 7
 17 = 28 - 8 - 3

0 = 27

1 = 20

8 = 17

11 = 11

11 = 28 - 11 - 6

totalSum = 28
 leftSum = 0

```

for (i = 0; i < n; i++) {
    // ...
}

```

totalSum = 28
leftSum = 0
28

```
{ for (i = 0; i < n; i++) {  
    totalSum += arr[i]  
}
```

```
{ for (i = 0; i < n; i++) {  
    RightSum = totalSum - leftSum - arr[i]  
    if (RightSum == leftSum) {  
        return i  
    }  
    leftSum += arr[i]  
}  
return -1
```