Target Sum Unique Pairs

T: nlogn

S: O(1)

target = 10

2 9 4 -1 8 11 8 5 2 12

↓ sort

-1 2 2 4 5 8 8 9 11 12

```
if (arr[i] + arr[j] == tar){
    Syso(arr[i], arr[j]);
    i++; j--;
}
else if (arr[i] + arr[j] < tar){
    i++;
}
else {
    j--;
}
```

-1, 11

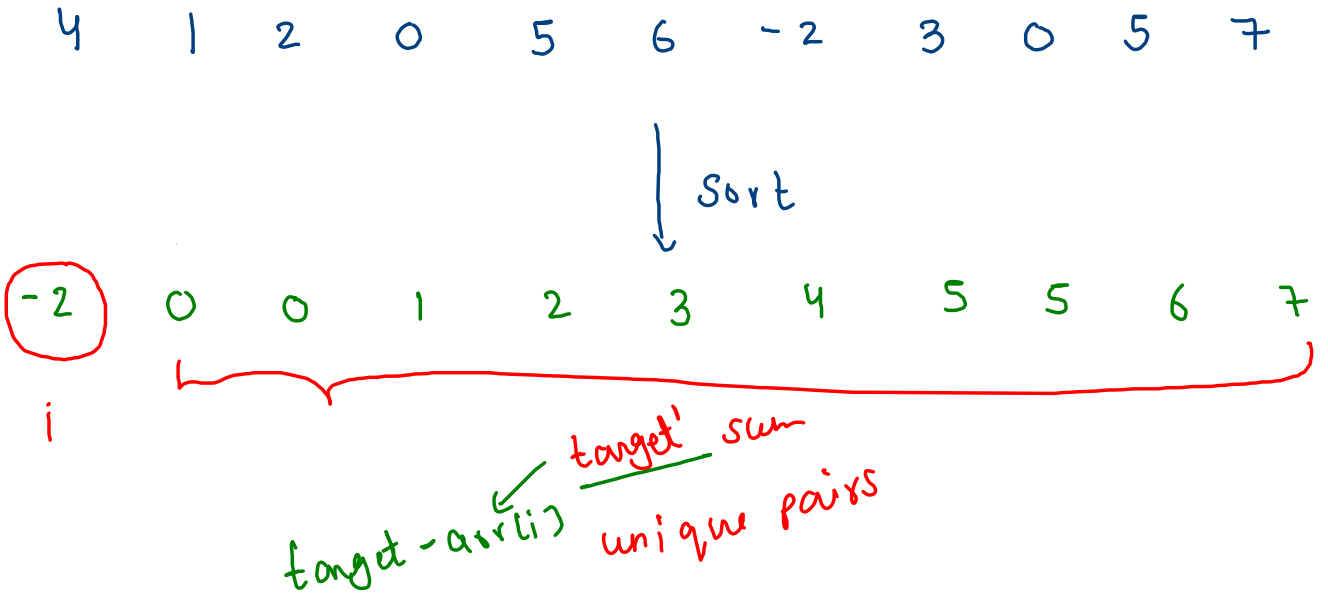
2, 8

Target Sum Unique Triplet

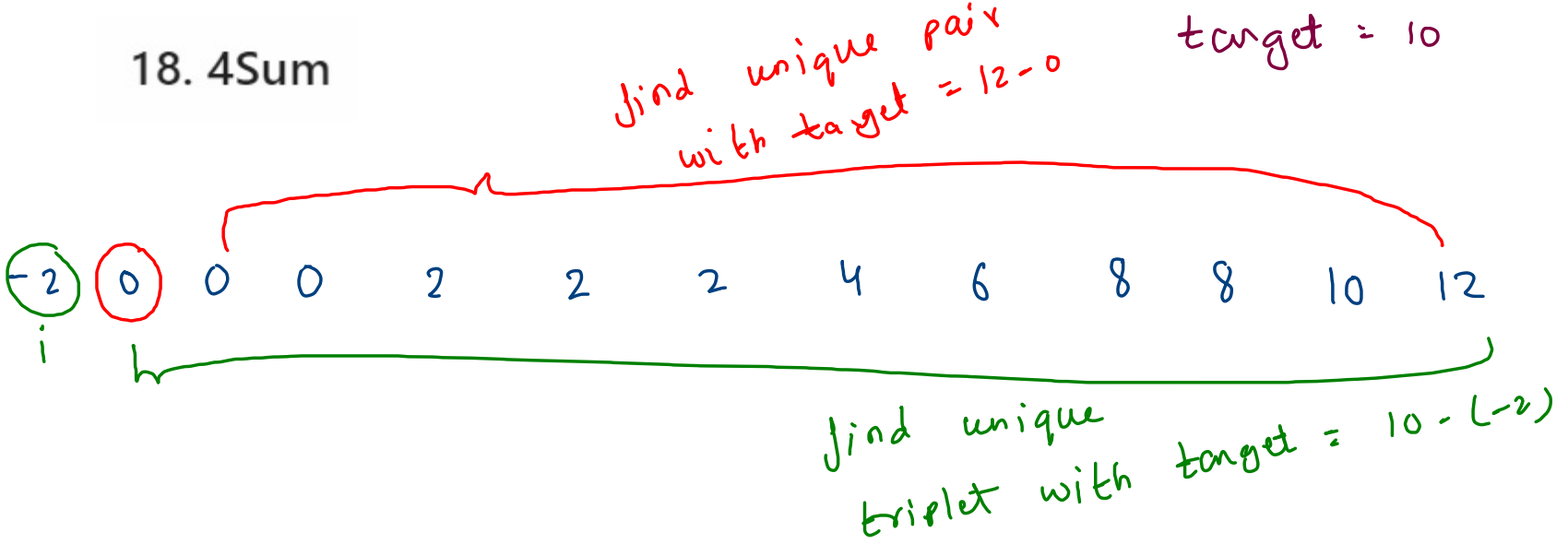
target = 5

T : $O(n^2)$

S : $O(1)$



18. 4Sum



-2, 0, 0, 12

-2, 0, 2, 10

-2 0, 4, 8

K Sum - Target Sum Unique Set

k

target

i

k : 4

0, 4, target

↓

1, 3, target'

↓

2, 2, target"

i , k, target

↓

i+1 , k-1, target - arr[i]