01 Step

To apply two pointer technique, we make sure that array is sorted.

Unsorted array =

1	4	45	6	10	-8
0	1	2	3	4	5

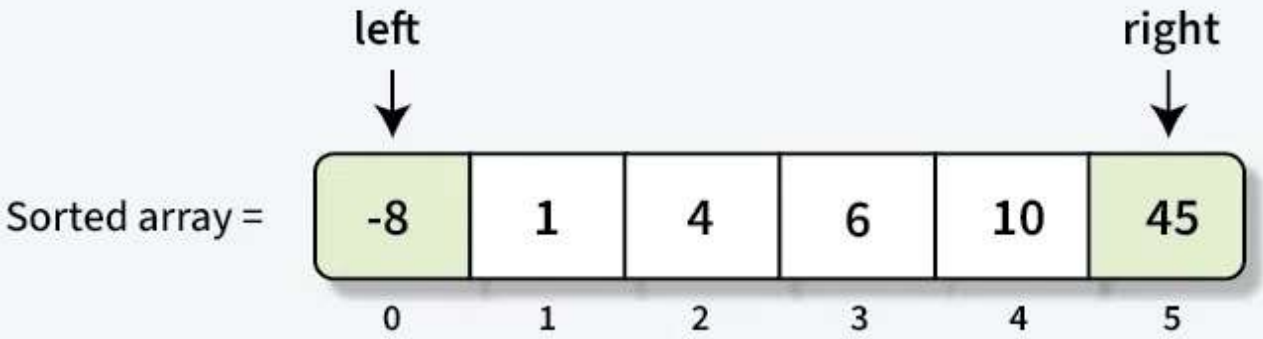
Sorted array =

-8	1	4	6	10	45
0	1	2	3	4	5

Two Pointer Technique

02 Step

Place the left pointer at the start of the array and right pointer at the end.
Calculate Sum: arr[left] + arr[right] = 37
Since, sum is greater than target (37 > 16), decrement the right pointer by 1



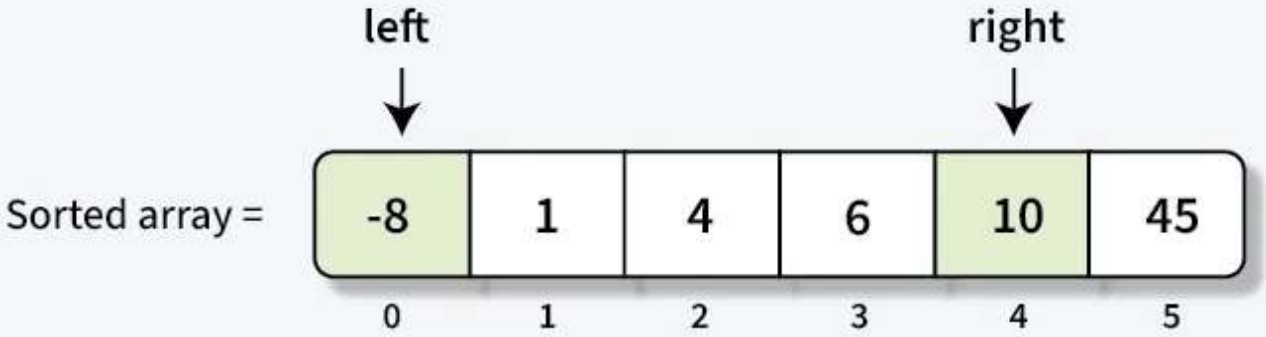
Sum = -8 + 45 = 37

target = 16

Two Pointer Technique

03 Step

Calculate Sum: arr[left] + arr[right] = 2
Since sum is smaller than target (2 < 16), increment left pointer by 1



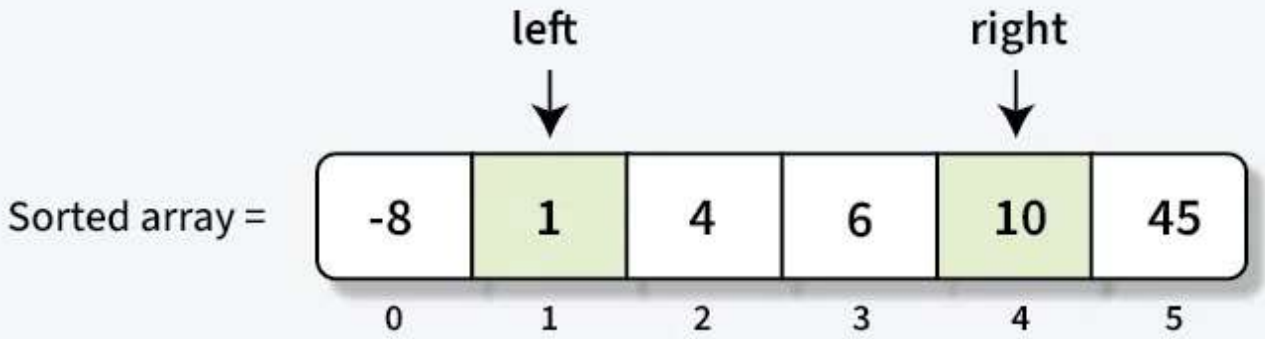
Sum = -8 + 10 = 2

target = 16

Two Pointer Technique

04 Step

Calculate Sum: arr[left] + arr[right] = 11
Since sum is smaller than target (11 < 16), increment left pointer by 1



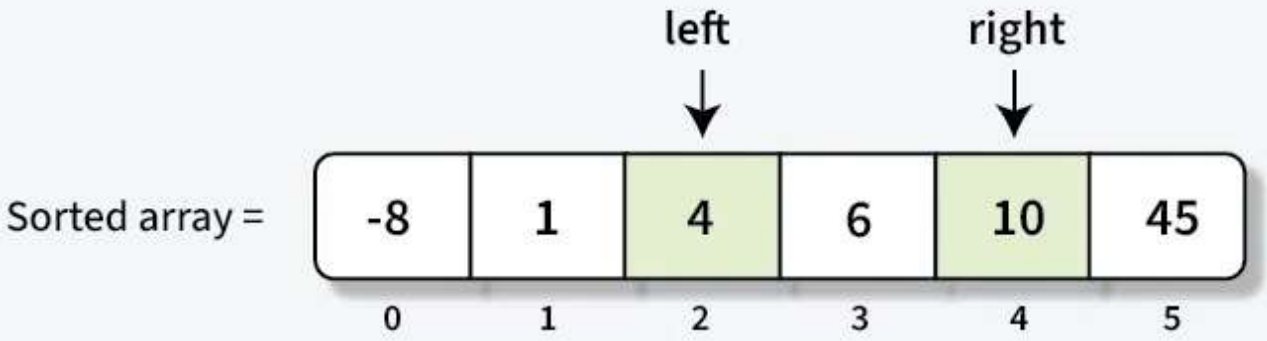
Sum = 1 + 10 = 11

target = 16

Two Pointer Technique

05 Step

Calculate Sum: arr[left] + arr[right] = 14
Since sum is smaller than target (14 < 16), increment left pointer by 1



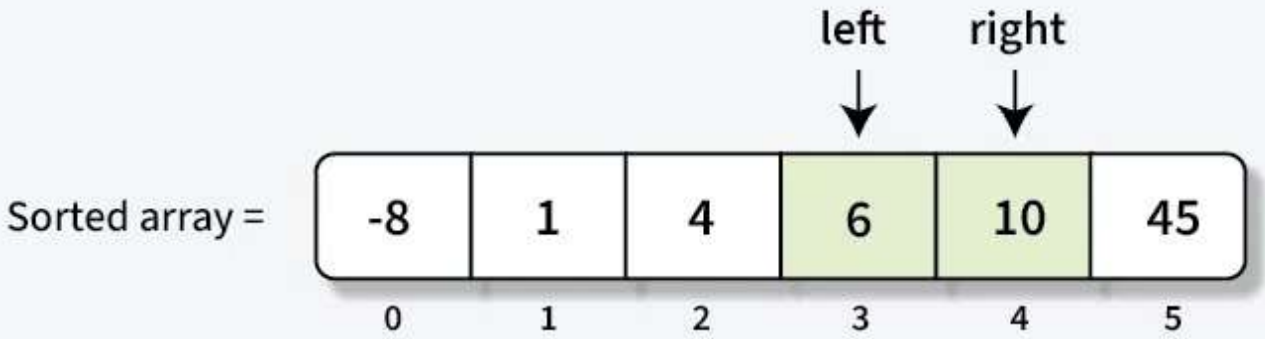
Sum = 4 + 10 = 14

target = 16

Two Pointer Technique

06 Step

Calculate Sum: arr[left] + arr[right] = 16
Sum is equals to the target (16 == 16).
We've found our pair.



Sum = 6 + 10 = 16

target = 16

Two Pointer Technique