

# Array-5

13 November 2025 13:49

## Pair or Two Sum

Approach-1 => Two Pointers (for sorted list)

{2, 7, 11, 15} n=4, Target = 26

$l=0, r=4-1=3$

Pair\_Sum = 0

while ( $l < r$ ) → loop starts

$$PS = 2 + 15 = 17$$

$$PS < Target$$

$$17 < 26 \Rightarrow l++$$



$$PS = 7 + 15 = 22$$

$$PS < Target$$

$$22 < 26 \Rightarrow l++$$



$$PS = 11 + 15 = 26$$

$$PS == Target = 26$$

Return {l, r} → Loop ends  
{2, 3}

Approach-2 => Hash Maps

unordered\_map → mp

$i=0$

$$\text{complement} = 26 - 2 = 24$$

$\Rightarrow 24$  is not in mp

$$\Rightarrow mp[2] = 1$$

$i=1$

$$\text{complement} = 26 - 7 = 19$$

$\Rightarrow 19$  is not in mp

$$\Rightarrow mp[7] = 2$$

$i=2$

$$\text{complement} = 26 - 11 = 15$$

$\Rightarrow 15$  is not in mp

$$\Rightarrow mp[11] = 3$$

$i=3$

$$\text{complement} = 26 - 15 = 11$$

11 is found in mp

Return {2, 3}

MP	
Key	value
2	1
7	2
11	3