

* Problem statement :-

- Input array is a 1-indexed array.
- Input array is sorted in ascending order.
- A target integer is provided.
- Find two elements in the array whose sum = target & return the indices of those elements.

* Example :-

Input :- numbers = [2, 7, 11, 15]

target = 9

Output :- [1, 2]

Input :- numbers = [-1, 0]

target = -1

Output :- [1, 2]

* Constraints :-

- There will always be one solution.
- Numbers are sorted in ascending order.
- Don't use any extra space.

* Solution :-

arr = [1, 2, 7, 11, 15] target = 9

- We can use 2 pointers approach where one pointer will be at index 0 & other at arr.length - 1.
- If sum == target, return [i+1, j+1] because it's a 1-indexed array.
- If sum > target, j-- else i++.

Time complexity :- $O(n)$

Space complexity :- $O(1)$ No additional space.