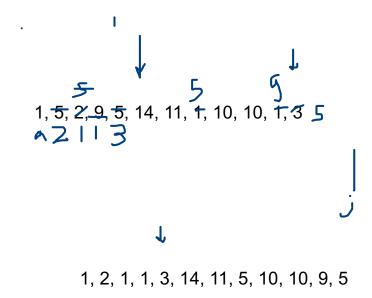
## Segregate elements on pivot



j = j.next

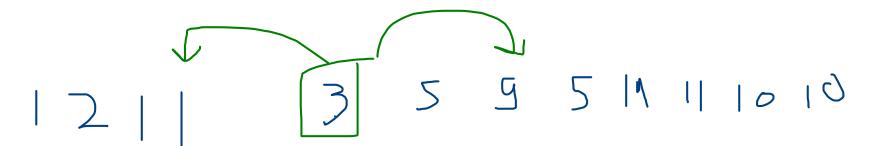
if (j.val <- pivot)
i = i.next</pre>

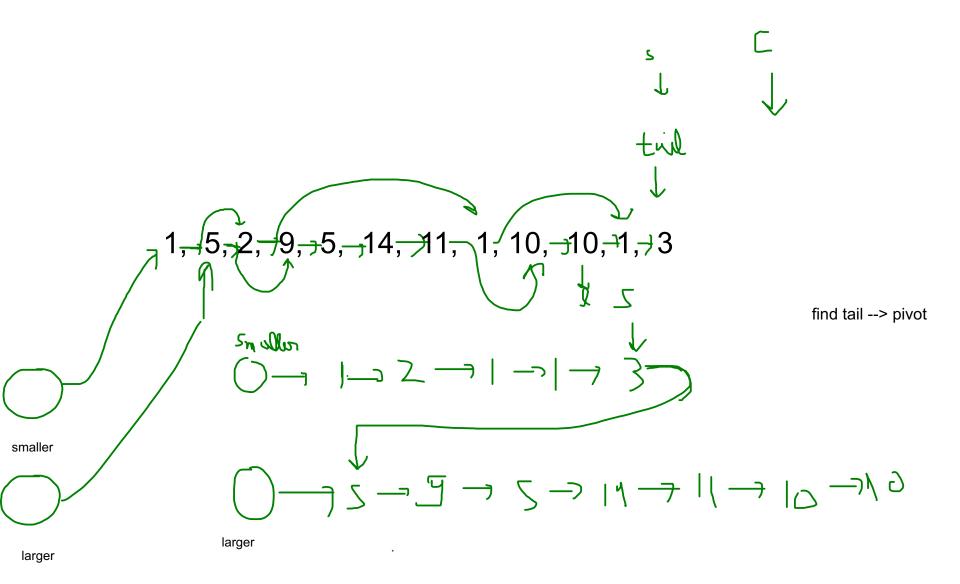
j = next;

Order of element is changed



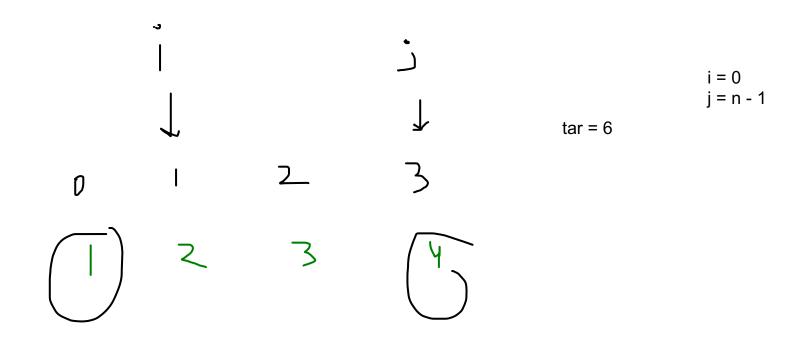
1, 5, 2, 9, 5, 14, 11, 1, 10, 10, 1, 3





sorted only one solution possible

return contant size 2 array [idx1, idx2]



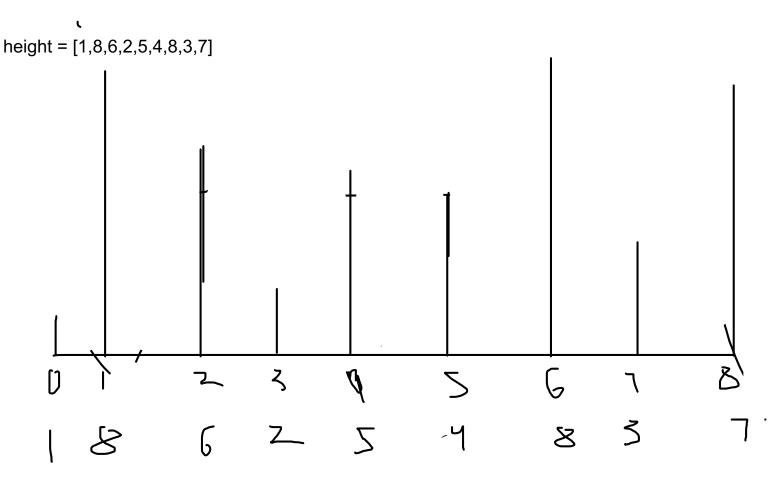
tar > sum(i,j) --> left pointer move

$$arr[i] + arr[j] = sum$$

tar < sum(i, j) --> right pointer

tar == sum --> stor ans

Container with most water



\_ 1 -

waterStores = 58 4g 3 Z

if (arr[i] <= arr[j])
update ans
i++</pre>

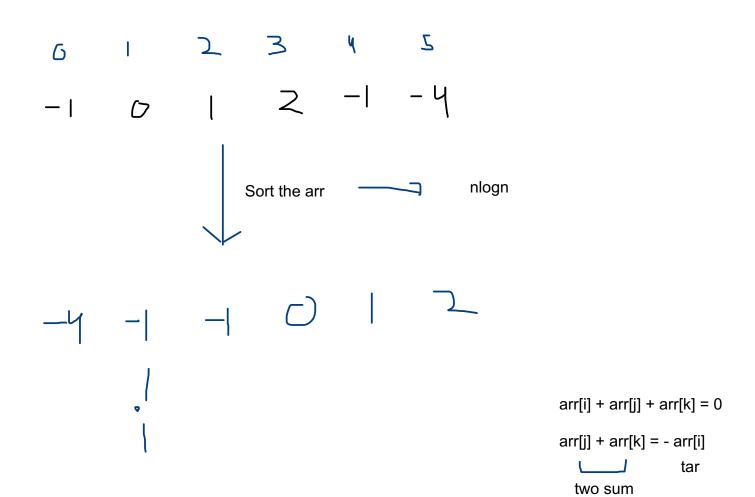
if (arr[i] > arr[j] update ans j--

## 3 Sum

$$1 = \begin{bmatrix} 0 & + 6 & -1 \\ 1 & -1 \end{bmatrix} = \begin{bmatrix} 1 & + 6 & -1 \\ 1 & -1 \end{bmatrix}$$

$$+ \begin{bmatrix} 1 & + 6 & -1 \\ 1 & -1 \end{bmatrix}$$

arr[i] + arr[j] = arr[k] == 0 -> record ans



 $n^2 + nlogn = n^2 (in BigO)$