

```
- Two pointing
                                              Pr. 13 V1,23 F2,33
Y0,23 V1,3)
                                         nuny = (2,7,11,15)
                                               82018 J
                 new int [] { c, j3
public int[] twoSum(int[] nums, int target) {
   int n=nums.length;
   for(int i=0; i<n; i++){
   for(int j=i+1; j<n; j++){
      if(nums[i]+nums[j]==taraet){</pre>
                                                                                Y0,13
            return new int[]{i,j};
                                                    resturn
   }
   return new int[]{}; = empt 1 comy
            -1-03
                                                                                             twe= 16
                                                                        public int[] twoSum(int[] nums, int target) {
                                                                            int n = nums.length;
                     Com= num (i) + num (j) j
                                                                            int i=0;
                                                                            int j=n-1;
num (i) - num (i)
                                                                                int csum = nums[i] + nums[j];
                      Coum < tu
                                                                                if(csum < target){</pre>
                                                                                    i++;
                                                                                } else if(csum > target){
                                                                                } else {
                       crum ==tan (i,j)
                                                                                    return new int[]{i+1,j+1};
                                                                            return new int[]{};
```

3 11 14 14 17 19



```
1=0

1=1

1=1

1++:

1++:

1++:

1++:

1++:

1++:

1++:

1-15
```

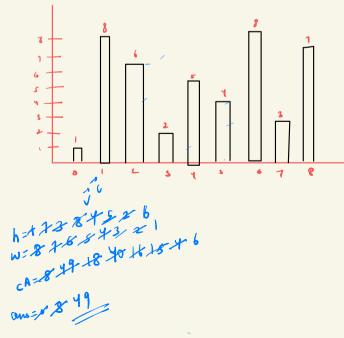
```
public static int diffPossible(int[] nums, int tar) {
   int n=nums.length;

   int i=0;
   int j=1;

   while(i<n && j<n){
       int diff = nums[j] - nums[i];

       if(diff < tar){
            j++;
       } else if(diff> tar){
                i++;
       } else {
                if(i!=j){
                      return 1; // returning true, pair is {i,j};
                } else { // i==j, diff = 0 }

                j++;
                }
                return 0; // returning false, didn't find any sol
}
```



[1,8,6,2,5,4,8,3,7]

```
public int maxArea(int[] height) {
    int n=height.length;

    int ans = 0;
    int i=0;
    int j=n-1;

while(i<j){
        int h = Math.min(height[i],height[j]);
        int w = j - i;

        int currArea = h*w;
        if(currArea > ans){
            ans = currArea; // getting a new maximum
        }

        if(height[i] < height[j]){
            i++;
        } else {
            j---;
        }
    }

    return ans;</pre>
```

