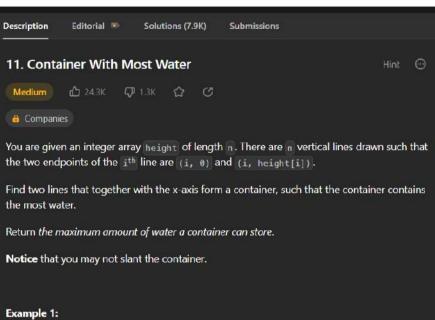
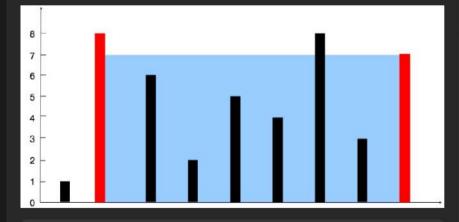


happen in chronological order.

```
i Java ∨ • Auto
     class UndergroundSystem {
         Map<Integer, ArrivalInfo> arrivals;
         Map<String, double[]> total;
         public UndergroundSystem() {
             arrivals = new HashMap<>();
             total = new HashMap<>();
         public void checkIn(int id, String stationName, int t) {
             arrivals.put(id, new ArrivalInfo(id, stationName, t));
         public void checkOut(int id, String stationName, int t) {
             ArrivalInfo arrival = arrivals.get(id);
             String key = arrival.stationName +" " + stationName;
             double[]pair = total.getOrDefault(key, new double[2]);
             int time = t-arrival.time:
Testcase
Accepted Runtime: 24 ms
 Case 1
             • Case 2
Input
  ["UndergroundSystem","checkIn","checkIn","checkIn","checkOut","checkOut","checkOut","getAverageTim
  e","getAverageTime","checkIn","getAverageTime","checkOut","getAverageTime"]
  [[],[45,"Leyton",3],[32,"Paradise",8],[27,"Leyton",10],[45,"Waterloo",15],[27,"Waterloo",20],[32,"C
  ambridge",22], ["Paradise", "Cambridge"], ["Leyton", "Waterloo"], [10, "Leyton",24], ["Leyton", "Waterlo
 o"],[10,"Waterloo",38],["Leyton","Waterloo"]]
                                                                                                    Submit
Console ~
                                                                                           Run
```





Input: height = [1,8,6,2,5,4,8,3,7]

Output: 49

Explanation: The above vertical lines are represented by array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 49.

```
i Java ∨ ∘ Auto
          public int maxArea(int[] height) {
              int water = 0, left =0, right = height.length-1;
              while(left < right){
                  water = Math.max(water, Math.min(height[left], height[right]) * (right-left));
                  if(height[left] > height[right]) right--;
                 else left++;
 10
              return water;
 12 }
Testcase
        Result
Accepted Runtime: 0 ms
 Case 1
             • Case 2
Input
  [1,8,6,2,5,4,8,3,7]
Output
 49
Expected
 49
                                          Contribute a testcase
Console V
                                                                                                 Submit
                                                                                        Run
```