

**PRACTICE** 

COMPETE

DBS LEADERBOARD

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Editorial



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Submissions

## Store the Water

Discussions



h by rithvik\_kolla

Problem

Editorial by rithvik kolla

Start from the leftmost and the rightmost ends. If the leftmost end is shorter than the rightmost, imagine pouring water from the leftmost end. It fills up everything in between and does not overflow because the rightmost is always greater than the leftmost in this case (and vice-versa). In this case the rightmost end acts as a wall of a container.

Leaderboard

## **Statistics**

Difficulty: Medium
Time O(n)
Complexity: Required
Knowledge: Basic Logic
Publish Date: Jun 26 2019

Set by rithvik\_kolla

```
Problem Setter's code:
 #include <stdio.h>
 #include <stdlib.h>
 int store(const int*, int);
 int main()
 {
     int t, n, sum = 0;
     scanf("%d", &t);
     while(t--)
         scanf("%d", &n);
         int arr[n];
         for(int i = 0; i < n; i++)
             scanf("%d", &arr[i]);
         sum = store(arr, n);
         printf("%d\n", sum);
}
 int store(const int* arr, int n)
     int left = 0;
     int right = n - 1;
     int res = 0;
     int maxleft = 0, maxright = 0;
     while(left <= right)</pre>
         if(arr[left] <= arr[right])</pre>
             if(arr[left] >= maxleft)
                 maxleft = arr[left];
             else
                  res += (maxleft - arr[left]);
             left++;
         }
         else
             if(arr[right] >= maxright)
                 maxright = arr[right];
                  res += (maxright - arr[right]);
             right--;
```

```
}
return res;
}
```

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