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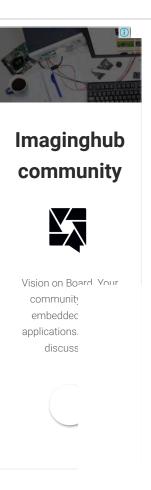
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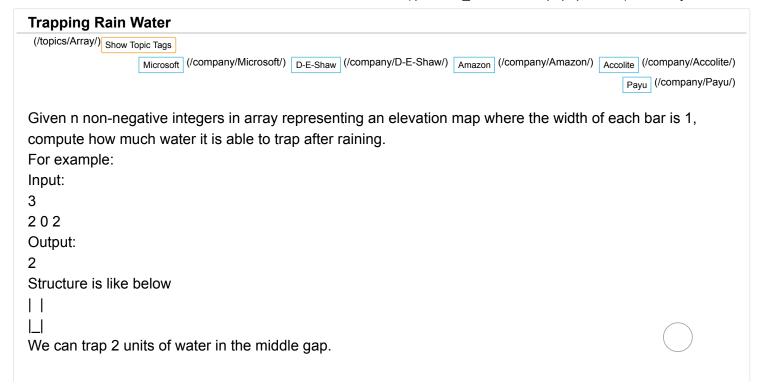


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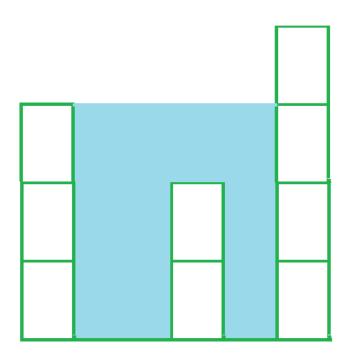
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Difficulty Level: Medium (https://practice.geeksforgeeks.org/Medium/0/0/)

Submissions: 8393 (/problem_submissions.php?pid=281) Accuracy: 39.99%



Below is another example.



Bars for input $\{3, 0, 0, 2, 0, 4\}$ Total trapped water = 3 + 3 + 1 + 3 = 10

Input:

The first line of input contains an integer T denoting the number of test cases. The description of T test cases follows.

Each test case contains an integer N followed by N numbers to be stored in array.

Output:

Print trap units of water in the middle gap.

Constraints:

1<=T<=100

3<=N<=100

0<=Arr[i]<10

Example:

Input:

2

4

7409

3

699

Output:

10

0

^{**} For More Input/Output Examples Use 'Expected Output' option **

Author: Karan Grover (https://auth.geeksforgeeks.org/user/Karan Grover/practice/)

All submissions (/problem_submissions.php?pid=281) My submissions (/problem_submissions.php?

pid=281&isSolved=ALL&lang=ALL&user=Self) Editorial (/editorial.php?pid=281)

New to competitive programming? Please see How to Begin? (https://www.geeksforgeeks.org/how-to-begin-with-competitive-programming/) and How to Pick a Category? (https://practice.geeksforgeeks.org/pickACategory.php)



It is recommended to 'Compile & Test' your code before clicking 'Submit'!

Compile & Test Submit Expected Output

Compilation/Execution Result:

Correct Answer.
Execution Time: 0.01

Next Suggested Problem: Pythagorean Triplet (/problems/pythagorean-triplet/0/?ref=self)

Need help with your code? Please use ide.geeksforgeeks.org (https://ide.geeksforgeeks.org), generate link and share the link here.

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Minimum Time (/problems/minimum-time/0/?ref=self)
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Maximum number of characters between any two same character (/problems/maximum-number-of-characters-between-any-two-same-character/0/?ref=self;
Trisha's Number (/problems/trishas-number/0/?ref=self)
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Vrinda Agarwal • 3 months ago

Please help! Getting SIGSEGV

http://ide.geeksforgeeks.or...
7 ^ | > • Reply • Share >

DG

raj007 → Vrinda Agarwal • 15 days ago

int k=s.top();

s.pop(); //Here when you pop, the stack might have become empty

int d=(i-s.top()-1); //So this call s.top will give you Segfault if it has become empty.



Afaque ahmad • a year ago

Please Help me! Cant understand where im going wrong!

http://code.geeksforgeeks.o...

4 ^ V • Reply • Share >



amor p → Afaque ahmad • a year ago

Silly mistake at below line :P

else

tower[i] = maxSeenRight;

check below... just changed this else part

http://code.geeksforgeeks.o...

∧ V • Reply • Share >



Yuge Xiong • 2 months ago

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Please help me!

I am getting the correct answers when I test with all the example inputs, but IndexOutOfBound error when I submit it!

1 ^ V • Reply • Share >



Zah Ra • a year ago

This is O(n) solution:

int find_res(int A[], int n){

int sum = 0;

int s1 = 0;

int i = 1;

while(i < n){

 $while(A[i] < A[s1]){$

j++;

}

for(int k = s1; k < i; k++){

sum += (std::min(A[s1] A[i]) - A[k]):

see more

1 ^ V • Reply • Share >



Deepjal Chhetri • 2 years ago

Good question !

```
1 ^ V • Reply • Share >
        Abhay Singh → Deepjal Chhetri • 2 years ago
              yeah ..awesome one..
              i solved it by..using 3 bars..then 4 bars..5 bars..
              what is your logic?
              Deepjal Chhetri → Abhay Singh • 2 years ago
               DG
                     I have used dp. Maintain two dp arrays, one dpleft and another dpright. Let dpleft[i] be the maximum elevation
                     map from 1 to i , and let dpright[i] be maximum elevation map from i to n, Then maximum amount of water you
                     can trap on ith position will be max ( min( left[ i ] , right[ i ] ) - a[ i ] , 0 ) .
                     The sum for each i from 1 to n gives you answer!
                     Radek Hendrych • 4 months ago
DG
       A commented solution in Python 3, runs in 0.05 sec.
       http://ide.geeksforgeeks.or...
        Shrihan P • 6 months ago
<del>DG</del>
       I thought my solution was perfectly alright, until I found a RTE.
        Help would be appreciated.!
       http://ide.geeksforgeeks.or...
        Soumava • 6 months ago
<del>DG</del>
       This question was asked in DE SHAW last year. Kindly add the company tag.
        GeeksforGeeks Mod → Soumava • 6 months ago
        DG
               Thanks for writing to us. We have added the company tag.
              ∧ V • Reply • Share >
        shreya srivastava • 6 months ago
<del>DG</del>
       Why don't we have number of test cases in the input.
       Input should be
       1
        4
       7409
       And not
       7409
        ∧ V • Reply • Share >
              shreya srivastava → shreya srivastava • 6 months ago
              The issue was due to the space my code was using. After moving the double dimension array inside the loop, it was
              successful.
              Muruganandhan Peramagounder • 10 months ago
<del>DG</del>
       def main():
       arr = (3,0,0,4,0,1)
        stones = 0
       drops = 0
       start_idx = 0
       if arr[0] > arr[-1]:
        arr = arr[::-1]
       for i in range(1, len(arr)):
       if arr[start idx] >= arr[i] and i != len(arr)-1:
```