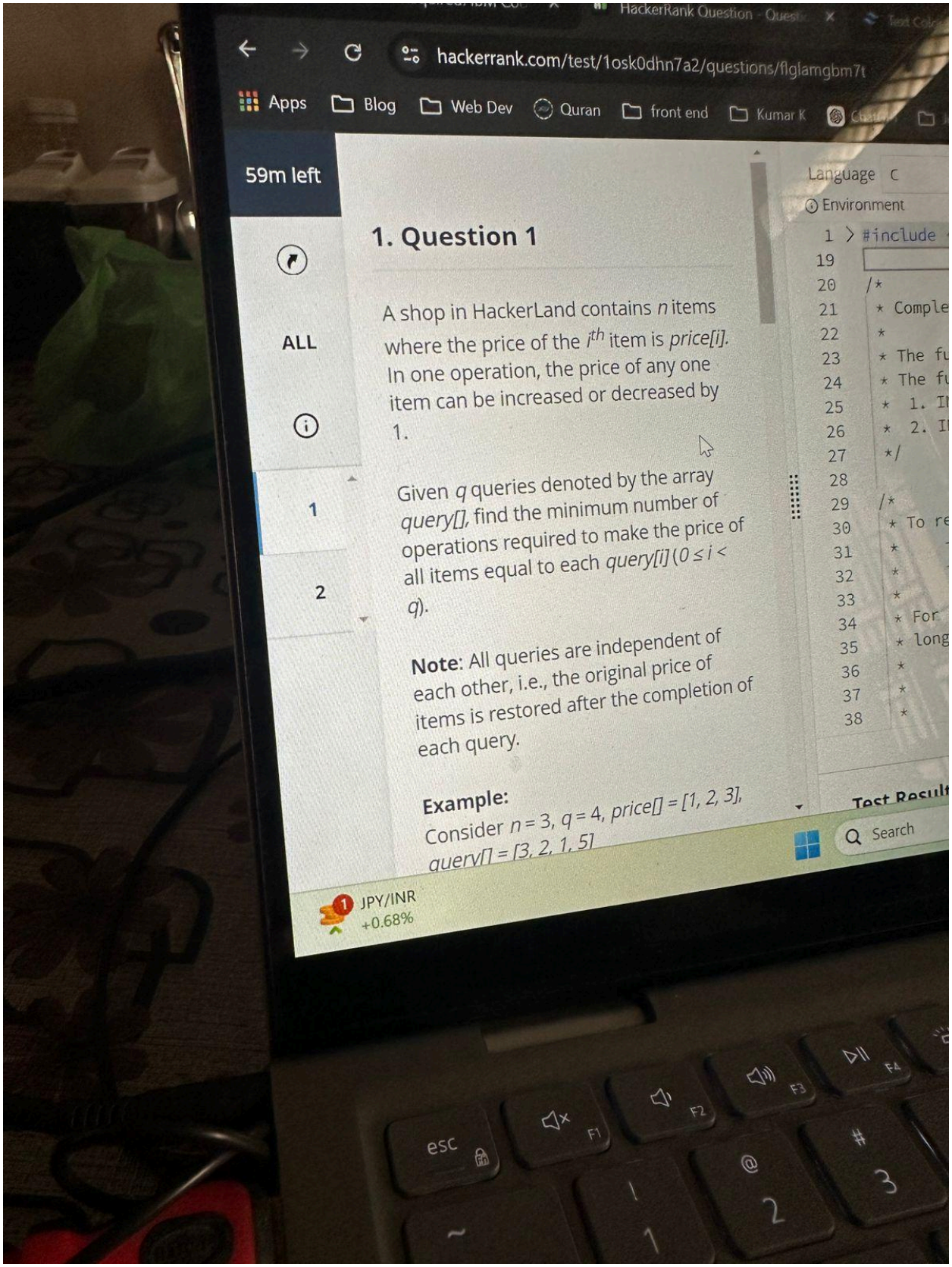
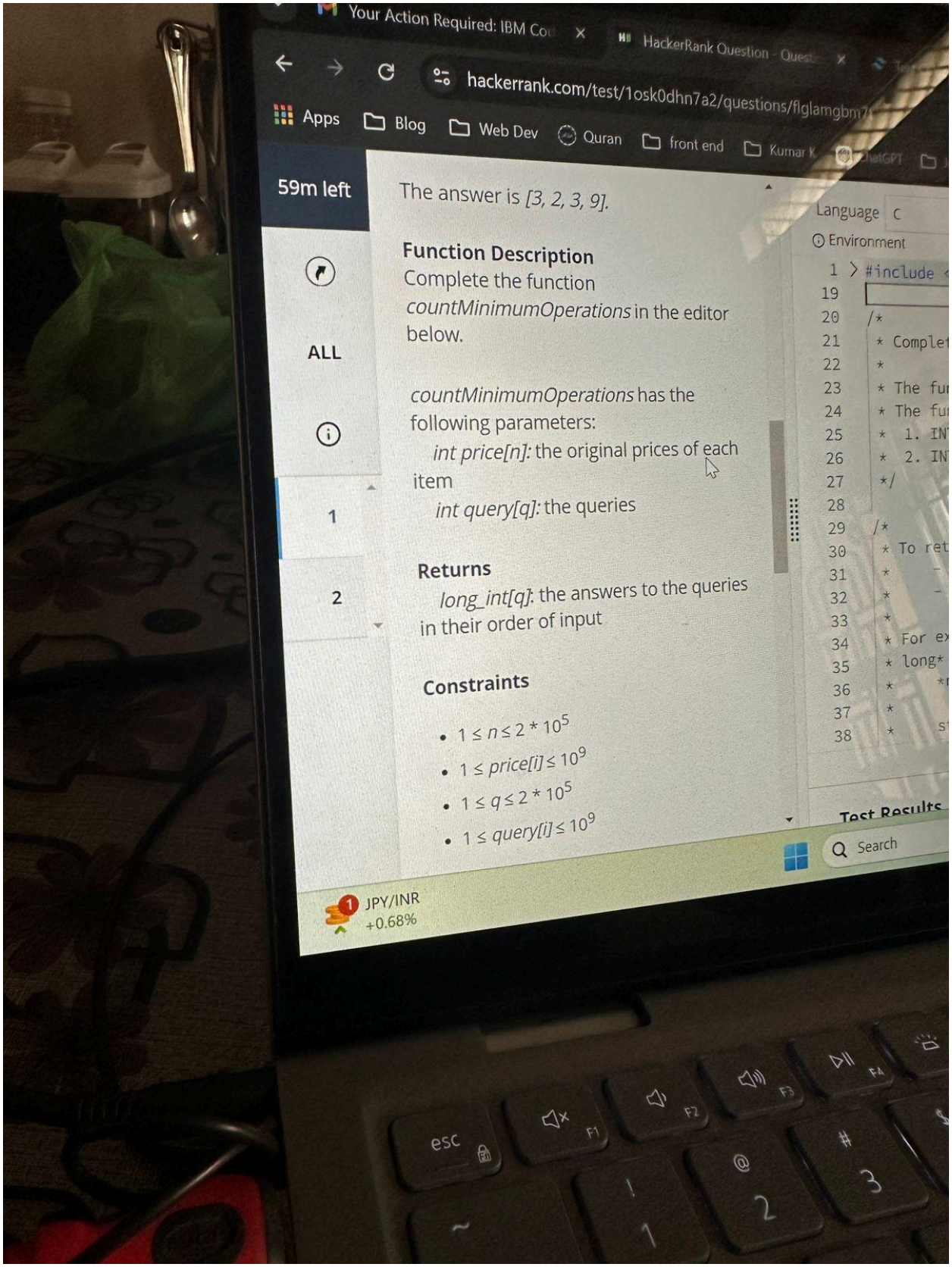

HackerRank Question - Questi
hackerrank.com/test/1osk0dhn7a2/questions/flglamgbm7t
Apps
Blog
Web Dev
Quran
front end
Kumar K
59m left
ALL
1
2
1. Question 1
A shop in HackerLand contains n items where the price of the i^th item is price[i]. In one operation, the price of any one item can be increased or decreased by 1.
Given q queries denoted by the array query[], find the minimum number of operations required to make the price of all items equal to each query[i] (0 ≤ i < q).
Note: All queries are independent of each other, i.e., the original price of items is restored after the completion of each query.
Example:
Consider n = 3, q = 4, price[] = [1, 2, 3], query[] = [3, 2, 1, 5]
Language C
Environment
1 > #include
19
20 /*
21 * Comple
22 *
23 * The fu
24 * The fu
25 * 1. I
26 * 2. I
27 */
28
29 /*
30 * To re
31 *
32 *
33 *
34 * For
35 * long
36 *
37 *
38 *
Test Result
Search
JPY/INR
+0.68%
esc
F1
F2
F3
F4
~
1
!
2
@
3
#


Your Action Required: IBM Co
HackerRank Question - Quest
hackerrank.com/test/1osk0dhn7a2/questions/flglamgbm7
Apps
Blog
Web Dev
Quran
front end
Kumar K
ChatGPT
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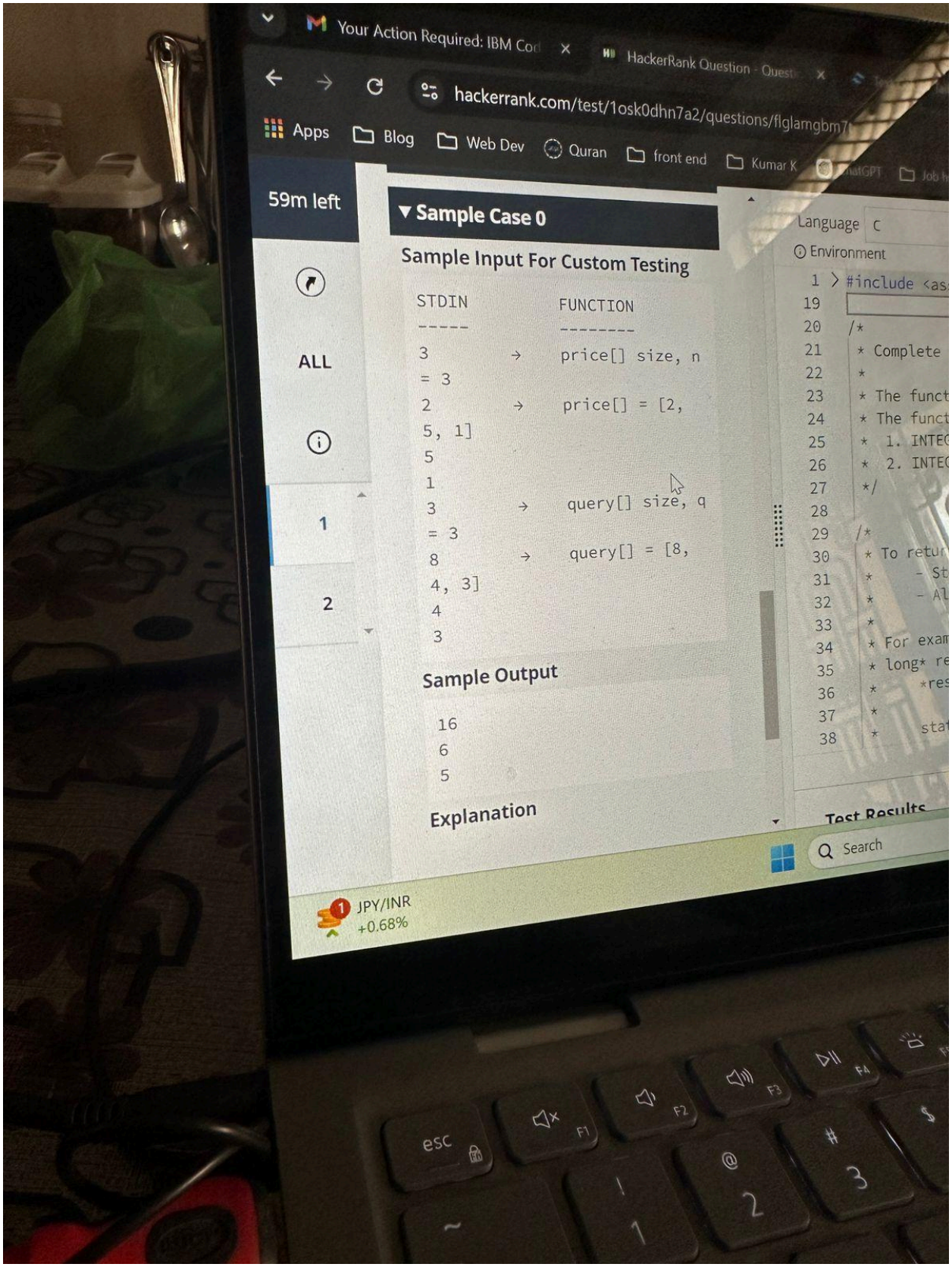
ALL
1
2
The answer is [3, 2, 3, 9].
Function Description
Complete the function countMinimumOperations in the editor below.
countMinimumOperations has the following parameters:
int price[n]: the original prices of each item
int query[q]: the queries
Returns
long_int[q]: the answers to the queries in their order of input
Constraints
1 ≤ n ≤ 2 * 10^5
1 ≤ price[i] ≤ 10^9
1 ≤ q ≤ 2 * 10^5
1 ≤ query[i] ≤ 10^9
Language C
Environment
1 > #include
19
20 /*
21 * Comple
22 *
23 * The fu
24 * The fu
25 * 1. IN
26 * 2. IN
27 */
28
29 /*
30 * To ret
31 *
32 *
33 *
34 * For ex
35 * long*
36 *
37 *
38 *
Test Results
Search
JPY/INR
+0.68%
esc
F1
F2
F3
F4
1
2
3


Your Action Required: IBM Cod
HackerRank Question - Quest
hackerrank.com/test/1osk0dhn7a2/questions/flglamgbm7
Apps
Blog
Web Dev
Quran
front end
Kumar K
59m left
Sample Case 0
Sample Input For Custom Testing
STDIN
FUNCTION
3 → price[] size, n = 3
2 → price[] = [2, 5, 1]
5
1
3 → query[] size, q = 3
8 → query[] = [8, 4, 3]
4
3
Sample Output
16
6
5
Explanation
ALL
1
2
Language C
Environment
Test Results
Search
JPY/INR
+0.68%

Understanding -> Given an array of size N; and a target -> find the minimum number of operations needed to make all elements of array equal to target -> there are multiple target in order of Q;

=> N = 5
[1 2 3 4 5]
Target = [3; 2]

O/P = [6 ; 7]

C++ - https://www.jdoodle.com/ia/1gOB

Java - https://ide.geeksforgeeks.org/online-java-compiler/77c8a6bc-e39a-4359-bd99-534c1b5cc3f9

Py - https://ide.geeksforgeeks.org/online-python3-compiler/f5b34c4d-5929-4258-856d-67a82a257f96

TC - O(N*Q)

Takes constant size;

—----------

Optimization:->

If target > all numbers in the array ->(target > max element of array)

-> answer = target*n - sum; =>O(1)

If target < all numbers in the array ->(target < min element of the array)

-> answer = sum - target*n;

C++ https://www.jdoodle.com/ia/1gUy

Java - https://ide.geeksforgeeks.org/online-java-compiler/d2ca5aed-7c53-4ee3-9d09-ba720edc1a28

Py - https://ide.geeksforgeeks.org/online-python3-compiler/3b3c4c08-2b72-41c6-ab10-e55f552b6add

TC - O(N + NlogN + QlogN)

Takes O(N) size;

C++ - Using binary search function on vector - https://www.jdoodle.com/ia/1gUu

Java - https://ide.geeksforgeeks.org/online-java-compiler/37c5ffb9-396b-431f-bf65-cf5af0cfb497

Py - https://ide.geeksforgeeks.org/online-python3-compiler/a8ba0e3a-4f4d-4ec8-ab53-3b65f255f0c4