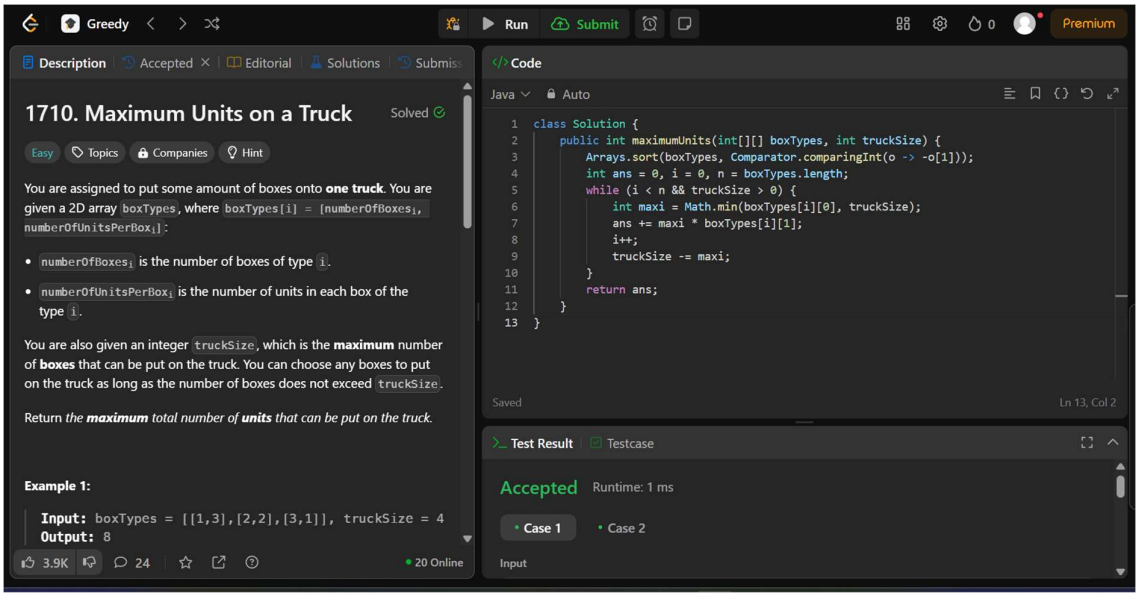
AP Experiment 8

SAHIL GUPTA

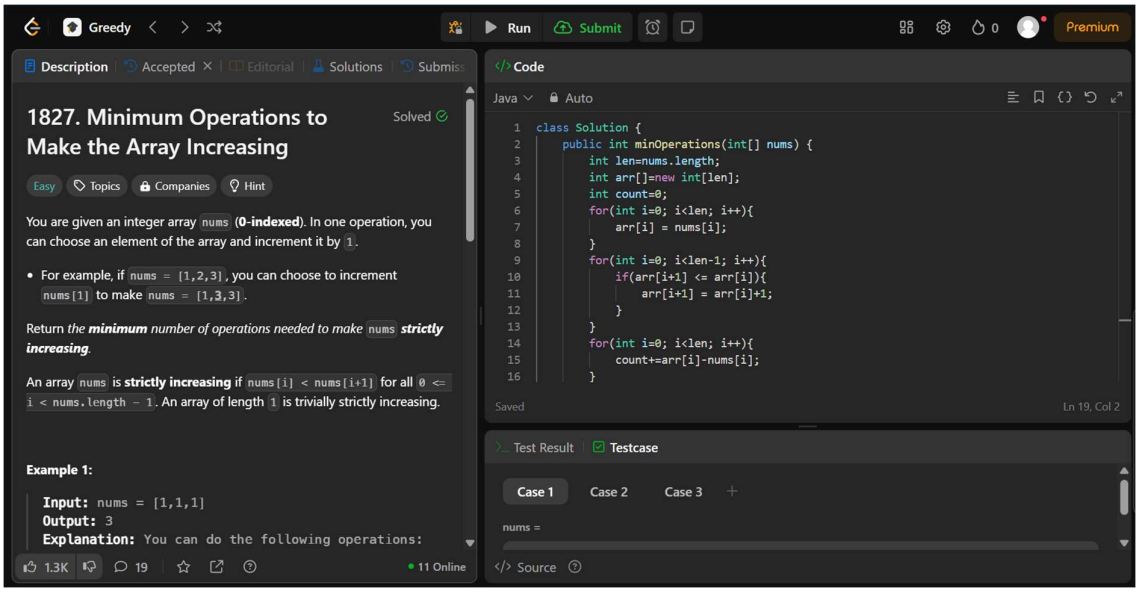
22BCS10608

IOT-614/B

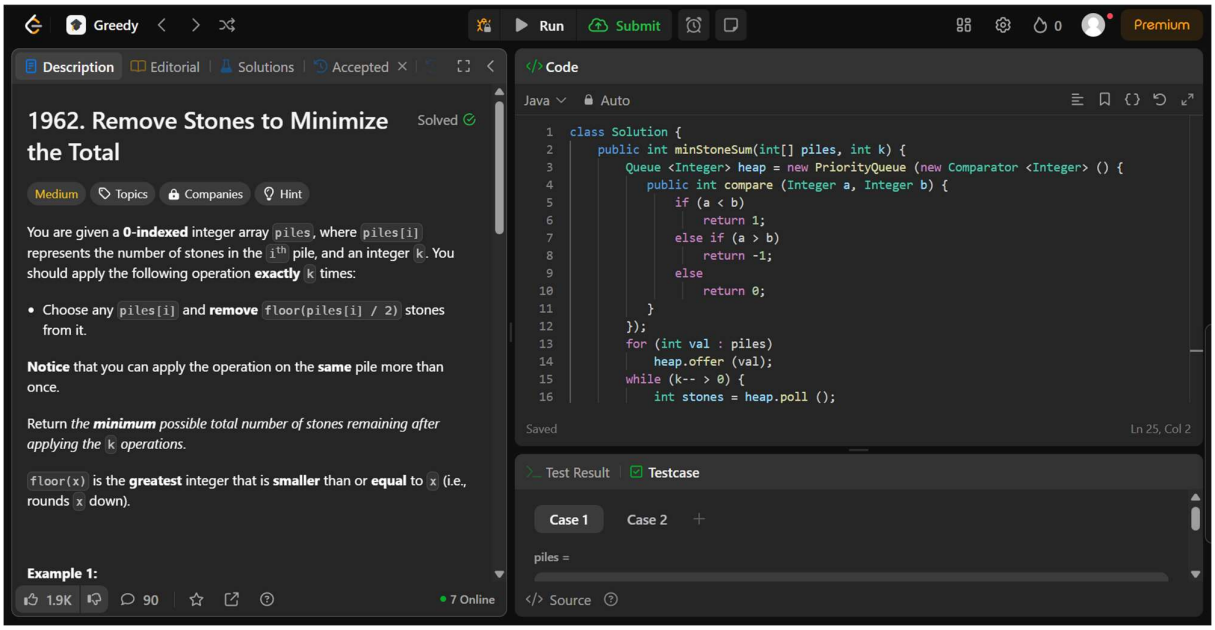
1710. Maximum Units on a Truck



1827. Minimum Operations to Make the Array Increasing



1962. Remove Stones to Minimize the Total



Greedy

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Description | Editorial | Solutions | Accepted

1962. Remove Stones to Minimize the Total

Solved

Medium | Topics | Companies | Hint

You are given a **0-indexed** integer array `piles`, where `piles[i]` represents the number of stones in the i^{th} pile, and an integer `k`. You should apply the following operation **exactly** `k` times:

- Choose any `piles[i]` and **remove** `floor(piles[i] / 2)` stones from it.

Notice that you can apply the operation on the **same** pile more than once.

Return *the **minimum** possible total number of stones remaining after applying the* `k` *operations.*

`floor(x)` is the **greatest** integer that is **smaller** than or **equal** to `x` (i.e., rounds `x` down).

Example 1:

1.9K 90 7 Online

Code

Java Auto

```java
class Solution {
    public int minStoneSum(int[] piles, int k) {
        Queue <Integer> heap = new PriorityQueue (new Comparator <Integer> () {
            public int compare (Integer a, Integer b) {
                if (a < b)
                    return 1;
                else if (a > b)
                    return -1;
                else
                    return 0;
            }
        });
        for (int val : piles)
            heap.offer (val);
        while (k-- > 0) {
            int stones = heap.poll ();
```

Saved Ln 25, Col 2

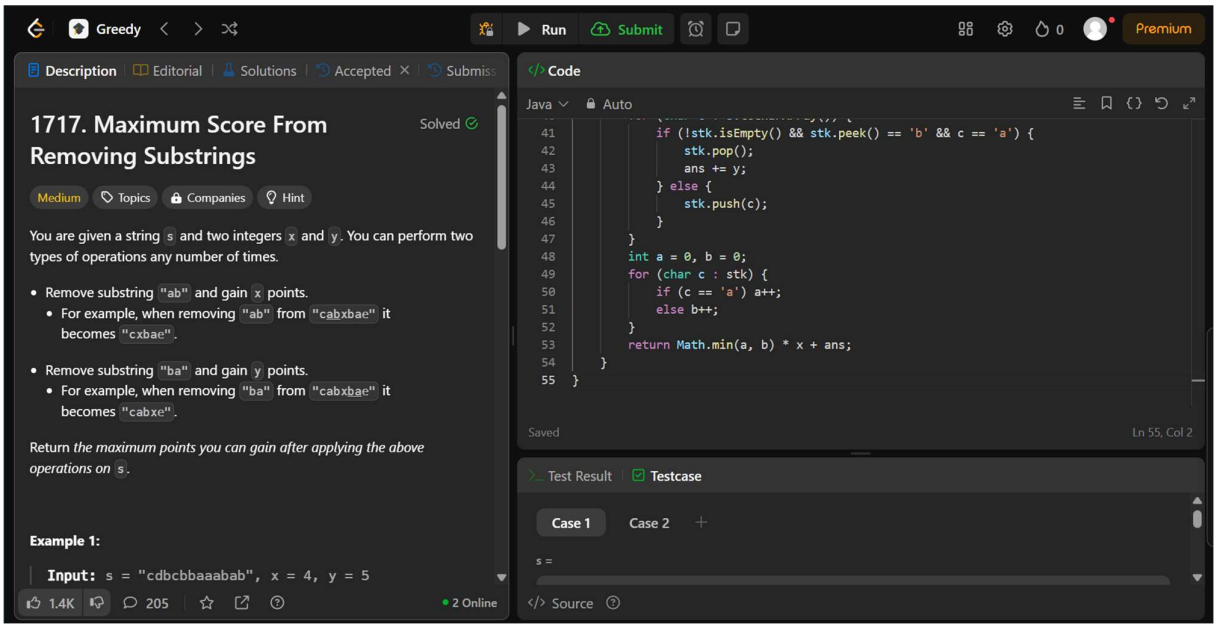
Test Result | Testcase

Case 1 Case 2

piles =

Source

1717. Maximum Score From Removing Substrings



Greedy

Run Submit Premium

Description | Editorial | Solutions | Accepted | Submiss

1717. Maximum Score From Removing Substrings

Solved

Medium | Topics | Companies | Hint

You are given a string `s` and two integers `x` and `y`. You can perform two types of operations any number of times.

- Remove substring `"ab"` and gain `x` points.
  - For example, when removing `"ab"` from `"cabxbae"` it becomes `"cxbae"`.
- Remove substring `"ba"` and gain `y` points.
  - For example, when removing `"ba"` from `"cabxbae"` it becomes `"cabxe"`.

Return *the maximum points you can gain after applying the above operations on* `s`.

Example 1:

Input: s = "cdbcbbaaabab", x = 4, y = 5

1.4K 205 2 Online

Code

Java Auto

```java
            if (!stk.isEmpty() && stk.peek() == 'b' && c == 'a') {
                stk.pop();
                ans += y;
            } else {
                stk.push(c);
            }
        }
        int a = 0, b = 0;
        for (char c : stk) {
            if (c == 'a') a++;
            else b++;
        }
        return Math.min(a, b) * x + ans;
    }
}
```

Saved Ln 55, Col 2

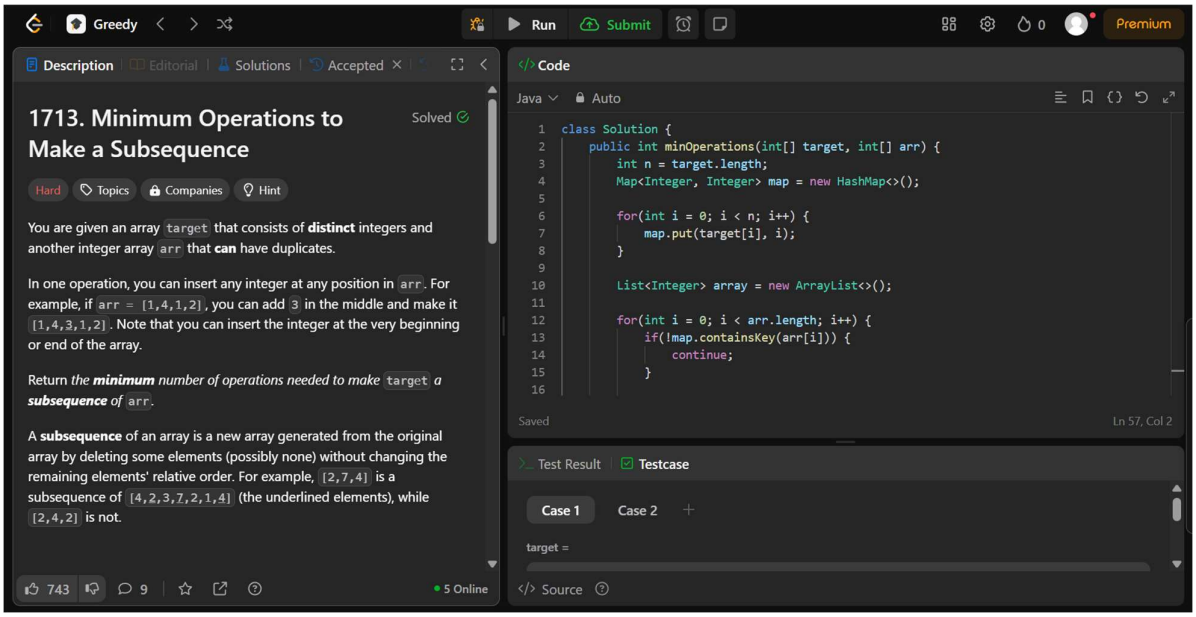
Test Result | Testcase

Case 1 Case 2

s =

Source

1713. Minimum Operations to Make a Subsequence



2071. Maximum Number of Tasks You Can Assign