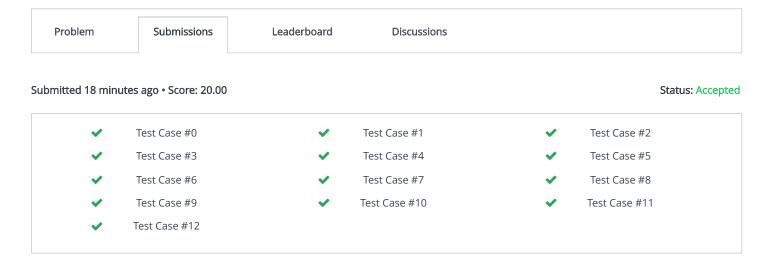
All Contests > Final Exam | Introduction to Algorithms | Batch 03 > Mina and Rita

Mina and Rita



Submitted Code

```
P Open in editor
 Language: C++20
1 #include <bits/stdc++.h>
2 using namespace std;
4 int main()
5 {
       int t;
6
7
       cin >> t;
8
9
       while (t--)
10
11
12
           string a, b;
           cin >> a >> b;
13
14
15
           int n = a.size();
16
            int m = b.size();
17
           int dp[n + 1][m + 1];
18
19
            for (int i = 0; i <= n; i++)
20
21
22
                for (int j = 0; j \le m; j++)
23
                    if (i == 0 \text{ or } j == 0)
24
25
                         dp[i][j] = 0;
26
27
28
                }
29
           }
```

```
for (int i = 1; i <= n; i++)
31
32
33
                for (int j = 1; j <= m; j++)
34
                    if (a[i - 1] == b[j - 1])
35
36
                        dp[i][j] = dp[i - 1][j - 1] + 1;
37
38
                    }
39
40
                    else
41
                    {
                        dp[i][j] = max(dp[i - 1][j], dp[i][j - 1]);
42
43
                }
44
45
           }
46
47
           cout << n + m - dp[n][m] << endl;</pre>
48
       }
49
50
       return 0;
51 }
```

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