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Batch - CSE-O2

Sparse Arrays

Problem | Submissions | Leaderboard | Discussions

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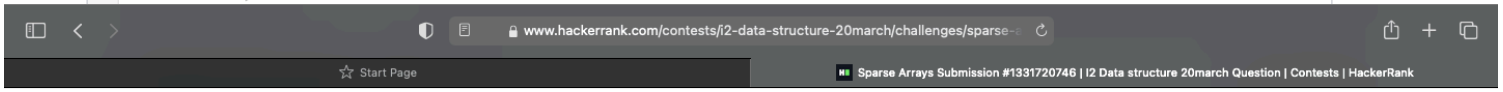
✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9	✔ Test Case #10	✔ Test Case #11
✔ Test Case #12		

Submitted Code

Language: C++ Open in editor

```
#include <iostream>
#include <iterator>
#include <unordered_set>
using namespace std;

int main() {
    int n, q, i;
    string str;
    unordered_multiset<string> s;
    cin >> n;
```



✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9	✔ Test Case #10	✔ Test Case #11
✔ Test Case #12		

Submitted Code

Language: C++ Open in editor

```
#include <iostream>
#include <iterator>
#include <unordered_set>
using namespace std;

int main() {
    int n, q, i;
    string str;
    unordered_multiset<string> s;
    cin >> n;
    for (i = 0; i < n; ++i) {
        cin >> str;
        s.insert(str);
    }
    cin >> q;
    for (i = 0; i < q; ++i) {
        cin >> str;
        cout << s.count(str) << '\n';
    }
}
```

Array Manipulation

Problem | Submissions | Leaderboard | Discussions

Submitted a few seconds ago • Score: 60.00 **Status: Accepted**

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9	✔ Test Case #10	✔ Test Case #11
✔ Test Case #12	✔ Test Case #13	✔ Test Case #14
✔ Test Case #15		

Submitted Code

Language: C++ Open in editor

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    long int N,K,p,q,sum,i,j,max=0,x=0;

    cin>>N>>K;
```

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Array Manipulation Submission #1331720803 | I2 Data structure 20march Question | Contests | HackerRank

✔ Test Case #15

Submitted Code

Language: C++ Open in editor

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    long int N,K,p,q,sum,i,j,max=0,x=0;

    cin>>N>>K;
    long int *a=new long int[N+1]();

    for(i=0;i<K;i++)
    {
        cin>>p>>q>>sum;
        a[p]+=sum;
        if((q+1)<=N) a[q+1]-=sum;
    }

    for(i=1;i<=N;i++)
    {
       x=x+a[i];
       if(max<x) max=x;

    }

    cout<<max;
    return 0;
}
```

Left Rotation

Problem | Submissions | Leaderboard | Discussions

Submitted a few seconds ago • Score: 20.00 **Status: Accepted**

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9		

Submitted Code

Language: C++ Open in editor

```cpp
#include <bits/stdc++.h>

using namespace std;

string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);

vector<int> rotateLeft(int d, vector<int> arr)
{
```

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Left Rotation Submission #1331720871 | I2 Data structure 20march Question | Contests | HackerRank

```cpp
#include <bits/stdc++.h>

using namespace std;

string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);

vector<int> rotateLeft(int d, vector<int> arr)
{
    if (d == 0)
        return arr;
    for (int i = 0; i < d; i++)
    {
        arr.push_back(arr[0]);
        arr.erase(arr.begin());
    }
    return arr;
}

int main()
{
    ofstream fout(getenv("OUTPUT_PATH"));

    string first_multiple_input_temp;
    getline(cin, first_multiple_input_temp);

    vector<string> first_multiple_input = split(rtrim(first_multiple_input_temp));

    int n = stoi(first_multiple_input[0]);

    int d = stoi(first_multiple_input[1]);

    string arr_temp_temp;
    getline(cin, arr_temp_temp);

    vector<string> arr_temp = split(rtrim(arr_temp_temp));

    vector<int> arr(n);

    for (int i = 0; i < n; i++) {
```

```cpp
    for (int i = 0; i < n; i++) {
        int arr_item = stoi(arr_temp[i]);

        arr[i] = arr_item;
    }

    vector<int> result = rotateLeft(d, arr);

    for (int i = 0; i < result.size(); i++) {
        fout << result[i];

        if (i != result.size() - 1) {
            fout << " ";
        }
    }

    fout << "\n";

    fout.close();

    return 0;
}

string ltrim(const string &str) {
    string s(str);

    s.erase(
        s.begin(),
        find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace)))
    );

    return s;
}

string rtrim(const string &str) {
    string s(str);

    s.erase(
        find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
        s.end()
    );
```

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Left Rotation Submission #1331720871 | I2 Data structure 20march Question | Contests | HackerRank

```cpp
    return 0;
}

string ltrim(const string &str) {
    string s(str);

    s.erase(
        s.begin(),
        find_if(s.begin(), s.end(), not1(ptr_fun<int, int>(isspace)))
    );

    return s;
}

string rtrim(const string &str) {
    string s(str);

    s.erase(
        find_if(s.rbegin(), s.rend(), not1(ptr_fun<int, int>(isspace))).base(),
        s.end()
    );

    return s;
}

vector<string> split(const string &str) {
    vector<string> tokens;

    string::size_type start = 0;
    string::size_type end = 0;

    while ((end = str.find(" ", start)) != string::npos) {
        tokens.push_back(str.substr(start, end - start));

        start = end + 1;
    }

    tokens.push_back(str.substr(start));

    return tokens;
```