CP Club 365Days Challenge

Programming language – c++

Problem Statement

https://www.hackerrank.com/challenges/lonely-integer/problem?isFullScreen=true

Your Code:

```cpp
// 0x50Day of 0x365Days challenge
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// 06-12-2022
#include <bits/stdc++.h>
using namespace std;
string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);
int lonelyinteger(vector<int> a)
{
    int answer = 0;
    for(int loop = 0; loop < a.size(); loop++)
    {
        answer^=a[loop];
    }
    return answer;
}
int main()
{
    ofstream fout(getenv("OUTPUT_PATH"));
    string n_temp;
    getline(cin, n_temp);
    int n = stoi(ltrim(rtrim(n_temp)));
    string a_temp_temp;
    getline(cin, a_temp_temp);
    vector<string> a_temp = split(rtrim(a_temp_temp));
    vector<int> a(n);
    for (int i = 0; i < n; i++) {
        int a_item = stoi(a_temp[i]);
        a[i] = a_item;
    }
    int result = lonelyinteger(a);
    // fout << result << "\n";
    cout << result << "\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()
    );
    return s;
```
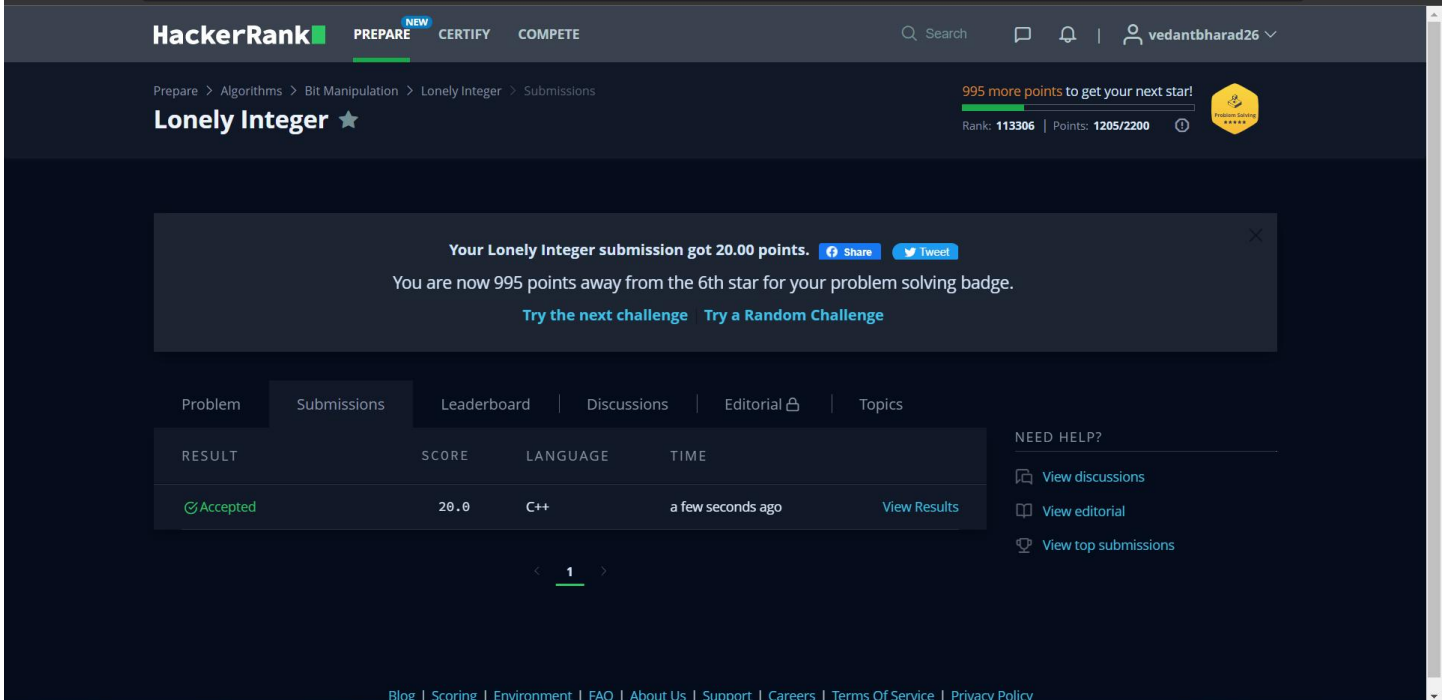
```
}
vector<string> split(const string &str) {
    vector<string> tokens;
    string::size_type start = 0;
    string::size_type end = 0;
    while ((end = str.find(" ", start)) != string::npos) {
        tokens.push_back(str.substr(start, end - start));
        start = end + 1;
    }
    tokens.push_back(str.substr(start));
    return tokens;
}
```

Output (Screen Shot):

Understanding about problem:

● In this task I need to return number which is unique in the given array.

● Here I used xor operation so it will return unique number from array.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST
Team CP Club