Sherlock and Array

```
#include <bits/stdc++.h>
using namespace std;
string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);
/*
 * Complete the 'balancedSums' function below.
 * The function is expected to return a STRING.
 * The function accepts INTEGER ARRAY arr as parameter.
 * /
string balancedSums(vector<int> arr) {
    long long totalSum = 0;
    for (int num : arr) totalSum += num;
    long long leftSum = 0;
    for (int num : arr) {
        if (leftSum == totalSum - leftSum - num) {
            return "YES";
        leftSum += num;
    return "NO";
}
int main()
    ofstream fout(getenv("OUTPUT PATH"));
    string T temp;
    getline(cin, T temp);
    int T = stoi(ltrim(rtrim(T temp)));
    for (int T itr = 0; T itr < T; T itr++) {</pre>
        string n temp;
        getline(cin, n temp);
        int n = stoi(ltrim(rtrim(n temp)));
```

```
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++) {</pre>
             int arr item = stoi(arr temp[i]);
            arr[i] = arr item;
        }
        string result = balancedSums(arr);
        fout << result << "\n";</pre>
    }
    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,</pre>
int>(isspace)))
    );
    return s;
}
string rtrim(const string &str) {
    string s(str);
    s.erase(
        find if(s.rbegin(), s.rend(), not1(ptr fun<int,</pre>
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;
}
```