Plus Minus

```
#include <bits/stdc++.h>
using namespace std;
string ltrim(const string &);
string rtrim(const string &);
vector<string> split(const string &);
/*
 * Complete the 'plusMinus' function below.
 * The function accepts INTEGER ARRAY arr as parameter.
 * /
void plusMinus(vector<int> arr) {
    int p=0;
    int n=0;
    int z=0;
    int nu=arr.size();
    for (int i=0;i<nu;i++) {</pre>
         if (arr[i]>0) {
            p++;
         }
         else if(arr[i]<0){</pre>
           n++;
         }
         else if(arr[i]==0){
            z++;
         }
    cout<< (double) p/nu<<endl;</pre>
    cout<< (double) n/nu<<endl;</pre>
    cout<< (double) z/nu<<endl;</pre>
}
int main()
    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;
    }
    plusMinus(arr);
    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;
}
```