Alice and Bob went to a pet store. There are N animals in the store where the ith animal is of type Ai.

Alice decides to buy some of these *N* animals. Bob decides that he will buy **all** the animals **left** in the store after Alice has made the purchase.

Find out whether it is possible that Alice and Bob end up with exactly same multiset of animals.

## **Input Format**

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of multiple lines of input.
  - o The first line of each test case contains an integer *N* the number of animals in the store.
  - The next line contains N space separated integers, denoting the type of each animal.

TalentBattle

## **Output Format**

For each test case, output on a new line, YES, if it is possible that Alice and Bob end up with **exactly** same multiset of animals and NO otherwise.

You may print each character in uppercase or lowercase. For example, the strings YES, yes, Yes, and yES are considered identical.

#### Sample Input

4

3

444

4

2332

4

1223

6

551515

#### Sample Output

NO

YES

```
NO
YES
C
#include <stdio.h>
int main(void) {
      int t;
      scanf("%d",&t);
      while(t--)
      {
        int n,i,p=0;
        scanf("%d",&n);
        int A[n];
                                   TalentBattle
        int ans[101];
        for(i=0;i<n;i++)
          scanf("%d",&A[i]);
        }
        for(i=0;i<101;i++)
        {
          ans[i]=0;
        }
        if(n%2==0)
          for(i=0;i<n;i++)
            ans[A[i]]++;
```

}

```
for(i=0;i<101;i++)
    if(ans[i]%2!=0)
    {
      p=1;
      break;
    }
   }
   if(p==0)
   {
    printf("YES\n");
   else
                         TalentBattle
    printf("NO\n");
 else
 {
   printf("NO\n");
 }
}
return 0;
```

}

```
C++
#include<bits/stdc++.h>
using namespace std;
using II = long long;
#define endl "\n"
int main(){
ios_base::sync_with_stdio(false);
cin.tie(NULL);
int T=1; cin>>T;
while(T--){
II n; cin>>n;
Il a[n]; map<II,II>mp; set<II>s;
bool ok = true;
for(inti = 0; i < n; i++){
                                       TalentBattle
  cin>>a[i];
  mp[a[i]]++;
  s.insert(a[i]);
}
for(auto it = s.begin(); it!=s.end(); it++){
  II temp = mp[*it];
  if(temp%2){ok=false;}
}
if(ok){cout<<"YES"<<endl;}</pre>
else{cout<<"NO"<<endl;}
}
return 0;
}
```

```
Java
import java.util.*;
import java.util.ArrayList;
import java.io.*;
class TestClass {
       static class FastReader {
              BufferedReader br;
              StringTokenizerst;
               publicFastReader(){
                      br = new BufferedReader(newInputStreamReader(System.in));
                                            alentBattle
              String next() {
                      while (st == null | | !st.hasMoreElements()) {
                             try {
                                     st = new StringTokenizer(br.readLine());
                             } catch (IOException e) {
                                     e.printStackTrace();
                             }
                      }
                      return st.nextToken();
              }
              int nextInt() {
                      return Integer.parseInt(next());
              }
```

```
long nextLong() {
               return Long.parseLong(next());
       }
       double nextDouble() {
               return Double.parseDouble(next());
       }
       double nextFloat() {
               return Float.parseFloat(next());
       String nextLine() {
               String str = "";
                                   [alentBattle
               try {
                      str = br.readLine();
               } catch (IOException e) {
                      e.printStackTrace();
               }
               return str;
       }
}
public static void main(String[] sadf) {
       FastReaderfr = new FastReader();
       int t = fr.nextInt();
       while (t-->0) {
               solve(fr);
```

```
}
       }
       public static void solve(FastReader fr) {
              int n = fr.nextInt();
              HashMap<Integer, Integer> map = new HashMap<Integer, Integer>();
              for (int i = 0; i < n; i++) {
                      int num = fr.nextInt();
                      map.put(num, map.getOrDefault(num, 0) + 1);
              }
              for (Map.Entry<Integer, Integer>e:map.entrySet()) {
                      if (e.getValue() % 2 != 0) {
                              System.out.println("NO");
                              return;
                                        TalentBattle
                     }
               System.out.println("YES");
       }
       private static int log(int N) {
               return 31 - Integer.numberOfLeadingZeros(N);
       }
Python
from collections import Counter
t = int(input())
for _ in range(t):
  n = int(input())
```

}

```
nums = [int(x) for x in input().split()]
b = Counter(nums)
c = True
for i in b:
    if b[i]%2==1:
        c = False
if c:
    print("YES")
else:
    print("NO")
```

