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406410114 UVA10226 Hardwood species
#include <bits/stdc++.h>
using namespace std;
struct TREE{
        string name;
        int times;
};
bool compare( const TREE &a,const TREE &b ) {
        if ( a.name < b.name )</pre>
                return true;
        else
                 return false;
}//
int main(){
        int i,j,k,t_num;
        cin >> t_num;
        string s;
        getline( cin , s );
        getline( cin , s );
while ( t_num-- ) {
                 //cout << "while";
                 TREE tree[10001];
                 int var = 0;
                 for ( i = 0; i < 10001; i++ )
                         tree[i].times= 0;
                 while(getline( cin , s ) && s !="" ){    //cout << "s: "<<s <<endl;  
                          bool isrepeat = false;
                          for ( i = 0;i<var;i++ ){
                                  if ( tree[i].name == s ) {
                                            isrepeat = true;
                                            tree[i].times++;
                                           break;
                                   }//if
                          }//for
                          if (isrepeat == false ) {
                                   tree[var].name = s;
                                   tree[var].times++;
                                   var++;
                          }//if
                 }//while
                 long long int total times = 0;
                 for ( i = 0; i < var; i++)
                         total_times+=tree[i].times;
                 //cout << "total times:"<<total times<<endl;</pre>
                 sort( tree, tree+var, compare );
                 for ( i = 0; i < var; i++ ) {
                          double res = double( tree[i].times ) / double( total times);
                          res *= 100;
                          if ( res != 0 )
                                  cout << tree[i].name << " " << fixed<<setprecision(4) << res<<endl;</pre>
                 }//for
                 if ( t num \geq =1 )
                          cout <<endl;
        }//while
        return 0;
}//main()
```