#include<stdio.h>

#include<iostream>

#include<string>

#include<map>

using namespace std;

map<string,int>s;

map<string,int>::iterator it1;

map<string,map<string,int> >p;

map<string,map<string,int> >::iterator it2;

int main()

{

int t;

scanf("%d",&t);

while(t--)

{

int n;

scanf("%d",&n);

while(n--)

{

char w[505],z[505];

scanf("%s%s",&w,&z);

int num;

scanf("%d",&num);

p[z][w]+=num;

}

for(it2=p.begin(); it2!=p.end(); it2++)

{

printf("%s\n",it2->first.c\_str());

for(it1=it2->second.begin(); it1!=it2->second.end(); it1++)

{

printf("%s %d\n",it1->first.c\_str(),it1->second);

}

}

s.clear();

p.clear();

}

}