vector - struct - Problema Dendrologia

```cpp
#include <iostream>
#include <vector>
#include <utility>
#include <algorithm>
using namespace std;

struct arvore{
    string nome;
    int alt;
};

bool cmp(arvore a, arvore b){
    return (a.alt > b.alt);
}

int main() {
    vector<arvore> arvores;
    arvore arv;
    int n,i,num;
    cin >> n >> num;
    for(i=0;i<n;i++){
        cin >> arv.nome >> arv.alt;
        arvores.push_back(arv);
    }
    stable_sort(arvores.begin(),arvores.end(),cmp);
    for(i=0;i<num;i++){
        cout << arvores[i].nome << endl;
    }
}
```

vector - pair - Problema Dendrologia

```cpp
#include <iostream>
#include <vector>
#include <utility>
#include <algorithm>
using namespace std;

int main() {
  vector<pair<int,string>> arvs;
  pair<int,string> arv;
  int n,i,num;
  cin >> n >> num;
  for(i=0;i<n;i++){
    cin >> arv.second >> arv.first;
    arvs.push_back(arv);
  }
  stable_sort(arvs.begin(),arvs.end());
  for(i=n-1;i>=n-num;i--){
    cout << arvs[i].second << endl;
  }
}
```