



Time Limit: 1sec Memory Limit: 256MB

Home

Problems

My Status

Standing

Clarifications Ouestions

Back

1001. Compute degrees using adjacency list

Total: 92 Accepted:

Description

Given an adjacency list representation of a graph, output all the degrees of the vertices.

struct ALGraph{

vector<list<int> > adj; //adjacency list of the graph

int vexnum;// number of vertices

int arcnum;//number of edges

//A simple initialization.

```
ALGraph(int n=0):vexnum(n){
   list<int> I;
   adj.resize(n,I);
}
```

vector<pair<int, int> > degree(const ALGraph &g);

// returns a list of indegrees and outdegrees for all vertices

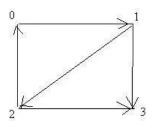
ALGraph mkALGraph(const char * f);

};

It returns an object of ALGraph given by the file f which contains the adjacency list of a graph.

The first line is the number of vertices.

The next n lines is the adjacency list. The first number is the number of the vertex, then its adjacency vertices followed and -1 signals the end of the list of adjacency list. For example, the following gives a graph and its representation:



0 1 -1

1 2 3 - 1

203-1

3 -1

The function returns an object of type ALGraph representing the graph. [MathJax]/extensions/MathZoom.js加载中

http://soj.acmm.club/show_problem.php?pid=1001&cid=2732

Hint

Design your own test data. No testing program is provieded at the moment.

Problem Source: Graph Algorithms

Problem Source: Graphs

Submit

Sicily Online Judge System(Rev 20120716-961) 中文 | English | Help | About Copyright © 2005-2018 Informatic Lab in SYSU. All rights reserved.

[MathJax]/extensions/MathZoom.js加载中