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AdjacencyList.h

```
1: /*
2: * AdjacencyList.h
3: *
 4: * Created on: May 28, 2011
 5: *
             Author: darioandrade
 8: #ifndef ADJACENCYLIST_H_
 9: #define ADJACENCYLIST_H_
10:
11: #include <stdio.h>
12: #include "List.h"
13:
14: class AdjacencyList {
15:
16: public:
17:
        AdjacencyList( int nVertex ); virtual ~AdjacencyList( );
18:
19:
20:
        virtual void addEdge( int iVertex, int jVertex, bool bUpdateNeighbor = true, bool bIncEdge = true );
void write( FILE * f = NULL );
void read( FILE * f = NULL, int debug = 0 );
21:
22:
23:
24:
25:
         virtual bool HasEdge( ) const;
26:
         virtual int RemoveHighestDegreeVertex( int debug ) { return -1; }
27:
         int GetSize() const { return m_nVertex;
int GetEdges() const { return m_nEdges;
28:
29:
30:
31: // int GetDegree(int iVertex) { return (int)m_arrAdjLists[iVertex]->size(); }
32:
33:
34: protected:
35:
        AdjacencyList();
36:
         virtual void Allocate( int nVertex );
37:
        virtual void updateData(){ }
38:
39:
         int
                                      m_nVertex;
        List **
40:
                                      m arrAdjLists;
41:
42:
                                      m_nEdges;
43: };
44:
45: #endif /* ADJACENCYLIST_H_ */
```