

```
1:  /*
2:   * DegreeVectorAdjacencyList.h
3:   *
4:   * Created on: Jun 11, 2011
5:   * Author: darioandrade
6:   */
7:
8: #ifndef DEGREEVECTORADJACENCYLIST_H_
9: #define DEGREEVECTORADJACENCYLIST_H_
10:
11: #include "AdjacencyList.h"
12:
13: class DegreeVectorAdjacencyList : public AdjacencyList
14: {
15: public:
16:     DegreeVectorAdjacencyList ( );
17:     virtual ~DegreeVectorAdjacencyList ( );
18:
19:     void addEdge( int iVertex, int jVertex, bool bUpdateNeighbor = true, bool bIncEdge = true );
20:     int RemoveHighestDegreeVertex( int debug );
21:
22: protected:
23:     void Allocate( int nVertex );
24:
25:     void DecrementDegree( int iVertex );
26:     void SetDegree( int iVertex, int degree );
27:     int GetDegree( int iVertex ) const;
28:
29:     int GetHighestDegreeVertex( ) const;
30:
31: private:
32:     int * m_vectorDegrees;
33: };
34:
35: #endif /* DEGREEVECTORADJACENCYLIST_H_ */
```