```
 1: #ifndef DEGREEHEAPADJACENCYLIST_H_
 2: #define DEGREEHEAPADJACENCYLIST_H_
 3:
 4: #include "AdjacencyList.h"
 5: #include "Heap.h"
 6:
 7: class DegreeHeapAdjacencyList : public AdjacencyList
 8: {
 9: public:
10:     DegreeHeapAdjacencyList ( );
11:
12:     virtual ~DegreeHeapAdjacencyList ( );
13:
14:     void Allocate( int nVertex );
15:     int RemoveHighestDegreeVertex( int debug );
16:
17: protected:
18:
19:     void updateData( );
20:
21: private:
22:     Heap* m_heap;
23: };
24:
25: #endif /* DEGREEHEAPADJACENCYLIST_H_ */
```