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// Macro Guard
#ifndef HuffmanHeap_H
#define HuffmanHeap_H

// Underlying DataType
#include "HuffmanNode.h"

class HuffmanHeap{

private:
    //private member fields
    HuffmanNode** storage;
    int heapSize;
    int capacity;

    void percUp(int);
    void percDown(int);
    int numChildren(int);

public:
    HuffmanHeap(int);
    ~HuffmanHeap();
    void insert(HuffmanNode*);
    HuffmanNode* removeMin();

    //accesses node with minimum frequency
    HuffmanNode peekMin();

    int getHeapSize()                {return heapSize;};
    HuffmanNode* getRoot()           {return storage[0];};

};
#endif
```