```
1 #ifndef DOUBLYLIST_H
 2 #define DOUBLYLIST_H
 3
4 #include <string>
 5 #include <iostream>
 6 using namespace std;
8 class Node
9 {
10 public:
       Node() : data(0), prev(nullptr), next(nullptr) {}
11
       Node(int newData, Node *newPrev, Node *newNext)
12
13
           : data(newData), prev(newPrev), next(newNext) {}
14
       int getData() const { return data; }
15
       Node *getPrev() const { return prev; }
16
       Node *getNext() const { return next; }
17
       void setData(int newData) { data = newData; }
       void setPrev(Node *newPrev) { prev = newPrev; }
       void setNext(Node *newNext) { next = newNext; }
19
20
       ~Node() {}
21 private:
22
       int data;
23
       Node *prev;
24
       Node *next;
25 };
26
27
28 class DoublyList
29 {
30 public:
31
       DoublyList();
32
       void insertFront(int newData);
33
34
35
       bool isEmpty() const;
36
37
       ~DoublyList();
38
39
       void destroyList();
40
       /*********************
41
42
           Functions to implement
       43
44
45
       // Declaration function print
46
       void print() const;
47
48
       // Declaration function reversePrint
49
       void reversePrint() const;
50
51
       // Declaration function front
52
       int front() const;
```

```
...b 05 - Doubly-linked Lists\Project1\Project1\DoublyList.h
```

```
2
```

```
53
54
       // Declaration function back
55
       int back() const;
56
57
       // Declaration function copyToList
58
       void copyToList(DoublyList& otherList) const;
59
       // Declaration function insertInOrder
60
61
       void insertInOrder(int insertElement);
62
63 private:
       Node *first;
64
                       // pointer to the first node on the list
65
       Node *last;
                       // pointer to the last node on the list
66
       int count;
                       // number of nodes in the list
67 };
68
69 #endif
```