



Students:

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# 6.30 HowU Air: Flight Information Homewo

Instructor note:

This HW is due Sunday, 3/3 at 11:59pm.

Upload your screenshot to Blackboard of your points with your name showing. No e  
You'll need to modify your previous homework to be a Doubly List

Suppose a program has to maintain a list of flights departing in the next few hours, and *list*. A node of the list can be represented as:

```
struct NODE {
    FLIGHT flight;
    NODE *next;
    NODE *previous;
};

struct FLIGHT {
    int flightNum;
    string destination;
};
```

- Create a **doubly linked list** to hold the initial flight information:
  - Houston, Chicago, Arizona, Baltimore, Detroit, Denver, Houston
  - Note: The flight number remains the same and it is 136
- Your program must implement the following methods: Append, Prepend, Remove,
- The **Append** function, appends data to the end of the list
- The **Prepend** function, prepends data to the beginning of the list
- The **Remove** function, removes a node from the list and adjusts the length of the li
- The **Print** function must print the entire list
- The **PrintReverse** function must print the entire list in reverse
- Prepend *Dallas* to the list
- Remove *Arizona* from the list
- Append *Kansas City* to the list
- Insert *Minneapolis* after *Kansas City* in the list
- Print the flight record using the Example of how your output is supposed to look:

Example:

Flight Records for HowardAir Flight CSCI0136:

1. Dallas to Houston
2. Houston to Chicago
3. Chicago to Baltimore
4. Baltimore to Detroit
5. Detroit to Denver
6. Denver to Kansas City
7. Kansas City to Minneapolis
8. Minneapolis to Dallas

- Print the flight record in reverse using the Example of how your output is supposed to be

Example:

Reverse Flight Records for HowardAir Flight CSCI0136:

1. Dallas to Minneapolis
2. Minneapolis to Kansas City
3. Kansas City to Denver
4. Denver to Detroit
5. Detroit to Baltimore
6. Baltimore to Chicago
7. Chicago to Houston
8. Houston to Dallas

LAB  
ACTIVITY

6.30.1: HowU Air: Flight Information Homework - Due 3/3

Current file: n

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5
6     /* Type your code here. */
7
8     return 0;
9 }
```

Develop mode   Submit mode

Run your program as often  
input values in the first box  
second box.

Predefine program input (optional)

If you'd like to predefine your inputs, provide them here.

Run my program   Stop

>

