Our Solution(s)   Run Code

Solution 1

```cpp
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  #include <vector>
4  using namespace std;
5
6  class LinkedList {
7  public:
8    int value;
9    LinkedList *next;
10
11   LinkedList(int value);
12 };
13
14 // O(n) time | O(1) space
15 LinkedList *findLoop(LinkedList *head) {
16   LinkedList *first = head->next;
17   LinkedList *second = head->next->next;
18   while (first != second) {
19     first = first->next;
20     second = second->next->next;
21   }
22   first = head;
23   while (first != second) {
24     first = first->next;
25     second = second->next;
26   }
27   return first;
28 }
29
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```cpp
1  #include <vector>
2  using namespace std;
3
4  class LinkedList {
5  public:
6    int value;
7    LinkedList *next;
8
9    LinkedList(int value);
10 };
11
12 LinkedList *findLoop(LinkedList *head) {
13   // Write your code here.
14   return NULL;
15 }
16
```

Our Tests

Custom Output   Submit Code

Run or submit code when you're ready.