Prompt   Scratchpad   Our Solution(s)   Video Explanation   Run Code

Solution 1

```cpp
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#include <vector>
using namespace std;

class LinkedList {
public:
  int value;
  LinkedList *next;

  LinkedList(int value);
};

// O(n) time | O(1) space
LinkedList *findLoop(LinkedList *head) {
  LinkedList *first = head->next;
  LinkedList *second = head->next->next;
  while (first != second) {
    first = first->next;
    second = second->next->next;
  }
  first = head;
  while (first != second) {
    first = first->next;
    second = second->next;
  }
  return first;
}
```