```cpp
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#include <vector>

using namespace std;

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

  LinkedList(int value) {
    this->value = value;
    this->next = NULL;
  }
};

// O(n + m) time | O(1) space - where n is the number of nodes in the first
// Linked List and m is the number of nodes in the second Linked List
LinkedList *mergeLinkedLists(LinkedList *headOne, LinkedList *headTwo) {
  LinkedList *p1 = headOne;
  LinkedList *p1Prev = NULL;
  LinkedList *p2 = headTwo;
  while (p1 != NULL && p2 != NULL) {
    if (p1->value < p2->value) {
      p1Prev = p1;
      p1 = p1->next;
    } else {
      if (p1Prev != NULL)
        p1Prev->next = p2;
      p1Prev = p2;
      p2 = p2->next;
      p1Prev->next = p1;
    }
  }
  if (p1 == NULL)
    p1Prev->next = p2;
  return headOne->value < headTwo->value ? headOne : headTwo;
}

```