//File: COSC112/TestJava/mmTestSolutions/linkedListSol.txt

1. Which statement correctly defines a LinkedList L for holding integers?

A. LinkedList <int> L;

B. LinkedList <Integer> = new List <> ();

C. LinkedList <int> L = new LinkedList <> ();

D. LinkedList <Integer> L = new LinkedList <> ();

ANSWER:

2. Find the last element of a LinkedList L?

A. L.get(L.size()-1)

B. L.get(L.size())

C. L.get(L.size)

D. L[L.size()-1]

ANSWER:

3. What is the value of L after this statement:

LinkedList <Integer> L = new LinkedList <> (Arrays.asList(1,2,3));

A. L ==> [1, 2, 3]

B. L ==> [3, 2, 1]

C. Error

D. L L ==> []

ANSWER:

4. A LinkedList in Java:

A. is a List

B. is an Array

C. is an ArrayList

D. is a Vector

ANSWER:

5. What does the following statement do to an empty LinkedList L?

L.push(2); L.push(3); L.push(4);

A. L is [2,3,4]

B. L is [4,3,2]

C. L is [4,3,2,0,0..]

D. L is [0,0..]

ANSWER:

6. Check if two LinkedList <T> L1 and L2 are equal:

A. L1.equals(L2)

B. L1 == L2

C. L1.equal(L2)

D. L1 is L2

ANSWER:

7. This method is used to insert an item w into a LinkedList L at the end.

A. L.insert\_item(w)

B. L.add(w)

C. L.store(w)

D. L.push\_back(w)

ANSWER:

8. This method is used to insert an item w into a LinkedList L at the position i.

A. L.insertItem(i,w)

B. L.add(i,w)

C. L.insert(w,i)

D. L.inser(i,w)

ANSWER:L.set(i,w);

9. This method returns the number of elements in a LinkedList L.

A. LL.size()

B. LL.length

C. LL.size

D. length(LL)

ANSWER:

10. This LinkedList method removes first item from a LinkedList L.

A. L.remove(0)

B. L.remove(L.size())

C. L.remove(first))

D. L.remove(L.size()-1)

ANSWER:

11. This LinkedList method returns true if the LinkedList has no elements.

A. L.has\_no\_elements()

B. null\_size()

C. L.empty

D. L.isEmpty()

ANSWER:

12. In order to find the second element of a LinkedList L:

A. L.get(2)

B. L.get(1)

C. L[1]

D. L.get(3)

ANSWER:

13. Given two LinkedList <Integer> L how do you sort it?

A. sort(L)

B. L.sort()

C. Arrays.sort(L)

D. Collections.sort(L)

ANSWER:

14. This method concatenates the contents of one LinkedList L1 with another L2.

A. L1.addAll(L2)

B. L1.add(L2)

C. L1.append(L2)

D. L1+L2

ANSWER:

15. Which piece of code reduces LinkedList L from [2,3,4,5] to [3,4].

A. L.pop(); L.remove(L.index(5));

B. L.pop(); L.remove(L.indexOf(5));

C. L.remove(L.indexOf(2,5));

D. L.pop(); L.remove(5);

ANSWER:

16. Which piece of code reduces LinkedList L from [2,3,4,5] to [5].

A. L.pop(); L.remove(L.index(5));

B. L.pop(); L.pop(); L.pop();

C. L.pop(); L.pop();

D. L.remove(0); L.pop();

ANSWER:

17. Which piece of code changes LinkedList L from [2,3,4] to [9,3,4].

A. L.add(9); L.remove(0);

B. L.pop(); L.push(9);

C. L.pop(9); L.push();

D. L.remove(0); L.add(9);

ANSWER:

18. Which piece of code changes LinkedList L from [2,3,4] to [9,3,4].

A. L[0]=9;

B. L.set(0,9);

C. L.set(9)

D. set(9,0);

ANSWER:

19. Check if a LinkedList <Integer> L contains an integer w.

A. L.contains(w)

B. L.member(w)

C. L.is\_in(w)

D. L.search(w)

ANSWER:

21. Remove method from a LinkedList <Integer> L an integer w=3 (first occurrence).

A. removeFirstOccurrence(L,3);

B. removeFirst(L,3);

C. L.remove(3);

D. L.removeFirstOccurrence(3);

ANSWER:

22. removeFirstOccurrence() method from a LinkedList <Integer> L an integer w (first occurrence).

A. L.removeFirstOccurrence(w); // returns true if removed

B. L.removeFirstOccurrence(w); // returns false if removed

C. removeFirstOccurrence(L,w); // returns false if removed

D. L.removeFirstOccurrence(w); // error if w not found

ANSWER:

23. Remove from a LinkedList <> L all occurrences of int w.

A. while (L.removeFirstOccurrence(w)) {}

B. while (L.size()){L.removeFirst(w)}

C. while (L.size()){L.removeFirstOccurrence(w);}

D. while (L.isEmpty()){L.remove(w);}

ANSWER:

24. Display first element from a LinkedList <> L:

A. L.peek()

B. L.poll()

C. L.push()

D. L.pop()

ANSWER:

25. Display first element from a LinkedList <> L:

A. L.peek()

B. L.poll()

C. L.push()

D. L.pop()

ANSWER:

26. Remove all elements from a LinkedList <> L:

A. L.clear()

B. L.empty()

C. L = []

D. L.set([])

ANSWER: