**CMSC 206: Data Structures**

**Reading Javadoc Documentation**

Using the documentation as posted at <https://docs.oracle.com/javase/8/docs/api/>, answer the following questions.

1. Consider the method ArrayList.indexOf. Also, let's say we have a list as created by these statements:

ArrayList<String> list = new ArrayList<>();

list.add("hi");

list.add("there");

list.add(null);

list.add("baloney");

list.add("hi");

* 1. What type does the indexOf method return?
  2. What would list.indexOf("hi") return?
  3. Which of the following is well-typed? There might be more than one.

1. ArrayList.indexOf("hi")
2. list.indexOf("hi")
3. indexOf("hi")
4. list.indexOf()
5. ArrayList.indexOf()
6. list.indexOf(new ArrayList<Integer>())
7. ArrayList.indexOf("hi","there")
8. indexOf("hi","there")
9. list.indexOf("hi","there")
   1. What would list.indexOf(null) return?
   2. What would null.indexOf(list) return?
10. Now, consider two-parameter ArrayList.add, with the same setup (list) as above.
    1. What type does the two-parameter add method return?
    2. What would be the contents of the list after list.add(2, "friend"); is executed?
    3. Ignoring any change from (b), what would happen if you call list.add(4, "folks");? What about list.add(5, "folks");? What about list.add(0,"folks");?