**CSE 102 – Quiz 4 Solutions**

1. What will be the output of the following program?

**public** **static** **void** main(String[] args){

ArrayList<Integer> nums = **new** ArrayList<>();

nums.add(3);

nums.add(5);

nums.add(nums.get(0));

System.***out***.println(nums);

}

1. Something like [I@1c4af82c
2. [3, 5]
3. [3, 3, 5]
4. [3, 5, 3]
5. In which of the following scenarios we need a dynamically resizable storage?
6. Storing integer values received from user where the first value entered is assumed to be the number of values following.
7. Storing integer values provided in the source code.
8. Storing integer values received from user until user enters a specific value.
9. Storing integer values which were accessed through an array parameter in a function.
10. Write a method which takes two ArrayList of integers and returns their intersection (the elements that appear in both lists) in the order they appear in the first list.

e.g.

intersection([1,3,5,2,3], [4,2,3,1,5,3]) returns [1,3,5,2,3]

intersection([2,2,1,1], [3,2]) returns [2,2]

intersection([3,1,2], [5,6]) returns []

**static** ArrayList<Integer> intersection(

ArrayList<Integer> list1, ArrayList<Integer> list2) {

ArrayList<Integer> res= **new** ArrayList<>();

**for**(**int** i=0; i<list1.size(); i++)

**if**(list2.contains(list1.get(i)))

res.add(list1.get(i));

**return** res;

}