Practice Lambdas/Streams Final

1. (2pts) If we attempt to run the following code what will be the result? What is an appropriate fix for this code, and what will be the result from the fixed code?

Stream<Integer> stream2 =

Stream.*iterate*(1, n -> n + 1);

stream2.collect(Collectors.toList()).forEach(System.out::println);

1. (8pts) We have a list of undergraduate students.

Write a streams and lambda implementation that will generate a list of students called honorRoll that includes all the students that have a gpa greater than 3.0 and have a major of compSci.

Show the (two simple) methods you need to implement in the class Student to make your streams solution work.

1. (8pts)Suppose we want to sort the honorRoll list by gpa with highest gpa first. Show 2 ways we could enhance the solution to problem 2 that will solve this problem.
   1. The simplest approach does not require any changes to Student.
   2. Show an approach that creates a comparator in the Student class and use that in your stream.