

# Streams Section Challenge

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In this challenge, you'll again use streams with the Student Engagement Code.

Before you start, first change the getRandomStudent method on Student, to select a random number and random selection of courses.

Every student should be enrolled, and have activity in at least one class.

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Set up three or four courses, use the lecture count version of the constructor on several of these, to pass lecture counts greater than 40.

Generate a list of 10,000 students, who've enrolled in the past 4 years.

Pass the supplier code three or four courses.

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Next, answer the following questions.

- How many of the students are enrolled in each class?
- How many students are taking 1, 2, or 3 classes?
- Determine the average percentage complete, for all courses, for this group of students. Hint, try `Collectors.averagingDouble` to get this information.
- For each course, get activity counts by year, using the last activity year field.

Think about how you'd go about answering these questions, using some of the stream operations you've learned, especially the collect terminal operation in conjunction, with the `Collectors` helper class methods.