Terminal Operations Challenge

In this challenge, you'll use the terminal operations shown on this slide.

You'll be using these, to answer some questions about a series of students.

It contains a Student class with demographic data.

Return Type	Terminal Operations
long	count()
DoubleStatistics	summaryStatistics()
boolean	allMatch(Predicate super T predicate)
boolean	<pre>anyMatch(Predicate<? super T> predicate)</pre>
boolean	<pre>noneMatch(Predicate<? super T> predicate)</pre>





Terminal Operations Challenge

This class has a factory method, to generate a new instance of a Student, using random data.

This factory method will also generate some random activity, for each course passed as an argument, to the Student constructor.

Return Type	Terminal Operations
long	count()
DoubleStatistics	summaryStatistics()
boolean	allMatch(Predicate super T predicate)
boolean	<pre>anyMatch(Predicate<? super T> predicate)</pre>
boolean	<pre>noneMatch(Predicate<? super T> predicate)</pre>



The Terminal Operations Challenge

Create a source for a stream of Students.

Use the static method on Student as the Supplier.

Use a large enough number to get a variety of Student data.

Use a combination of the intermediate and terminal operations we've covered so far, to answer the following questions.

- How many male and female students are in the group?
- How many students fall into the three age ranges, less than age 30, between 30 and 60, over 60 years old.



The Terminal Operations Challenge

- Use summaryStatistics on student's age, to get a better idea of how old the student population is.
- What countries are the students from? Print a distinct list of the country codes.
- Are there students that are still active, that have been enrolled for more than 7 years? Use one of the match terminal operations to answer this question.
- Next, select 5 of the students above, and print their information out.

