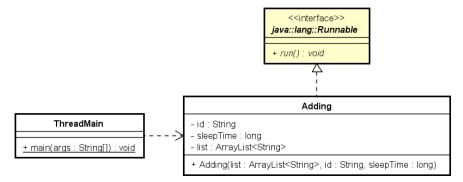
(Exercise 01.01)

Implement the following system (see below)



A class Adding:

- Three instance variables, an ArrayList, an id, and a sleep time in milliseconds.
- A constructor setting all instance variables
- A method run () adding 5 String elements. In a loop, add a string marked with id and number, print out the id and the entire list, sleep for sleepTime milliseconds and go to the next loop cycle.

A main class ThreadMain:

- Create an ArrayList for string elements
- Create one thread with Adding as the Runnable
- Start up the thread and wait for the thread to finish before you print out the entire list and the number
 of elements (the list size)

Run the program a few times and inspect the output.

Exercise 01.02 A

Change the previous exercise such that you start up 3 threads in main (give different id's and different sleep times) and then run the program a few times to inspect the output (add print statements in the run method to see which thread is adding an item and print the full queue also)

Can you anticipate the order? Is the list size always 15?

Example run:

```
id=A, list=[A#1]
id=B, list=[A#1, B#1]
id=A, list=[A#1, B#1, A#2]
id=C, list=[A#1, B#1, A#2, C#1]
...
[A#1, B#1, A#2, C#1, A#3, B#2, A#4, A#5, B#3, C#2, B#4, C#3, B#5, C#4, C#5]
count=15
```

Exercise 01.02 B

Change the previous exercise such that you start up 3 threads all with the same sleep time. Run the program a couple of times and explain why the result is the way it is. (Are any of the updates lost?)