## Worksheet: Interaction between finish and actors

What output will be printed if the end-finish operation is moved from line 13 to line 11 as shown below?

```
1. finish(() -> {
     int threads = 4;
2.
     int numberOfHops = 10;
3.
     ThreadRingActor[] ring = new ThreadRingActor[threads];
4.
     for(int i=threads-1;i>=0; i--) {
5.
        ring[i] = new ThreadRingActor(i);
6.
       ring[i].start();
7.
                                                                 Deadlock (no output): the end-finish
       if (i < threads - 1) {
                                                                 operation in line 11 waits for all the
8.
                                                                 actors started in line 7 to terminate,
          ring[i].nextActor(ring[i + 1]);
                                                                 but the actors are waiting for the
10.
                                                                 message sequence initiated in line 13
11. }); // finish
                                                                 before they call exit().
12.ring[threads-1].nextActor(ring[0]);
13.ring[0].send(numberOfHops);
```



14.