Exercises 2 – 6 are programming problems. Submit them in a single file named a03.rkt electronically per the instructions for your course.

1. Study Hailperin, Sections 4.1, 4.3.

2. Do Hailperin, Exercise 3.10.

3. Do Hailperin, Exercise 3.11.

   Name the function first-survivor-after so that

   (first-survivor-after 0 8)

   returns 4, and

   (first-survivor-after (first-survivor-after 0 8) 8)

   returns 7.

5. Do Hailperin, Exercise 4.9.