Exercise 1: Hello world

In this exercise you will write your first Reo program that outputs "Hello, world!" on the screen. Assume that your are given 8 different components: a producer component for every character/space in "H", "e", "l", "o", " ", "w", "r", "d", "!".

- 1. Using pen and paper, design a Reo connector with 9 input ports (one for each character) and a single output port such that every get operation on the output port returns the next character from the string Hello, world!.
- 2. Implement your designed connector in the Reo language by implementing the following component:

```
connector(a[1..9], b) {
    ...
}
```

3. Create a main component that links the connector with Java components:

```
main() {
   cons(x) prod_H(a) ...
   connector(a, b, c, d, e, f, g, h, i, x)
}

cons(a?String) { #JAVA "Components.cons" }
prod_H(a!String) { #JAVA "Components.prod_H" }
...
```

where the Java components are defined in Component.java:

Exercise 2: Chess

Design and implement a Reo protocol that coordinates the play between two chess programs and a chess board that displays each move. You can use the files that you get with this exercise.