

Example

Exercise 1.

The formula written for parallel declaration is:

$$\mathcal{D}[\text{Mut } D_1 \ D_2 \ \text{All } y]_{\rho} = \forall \mu. \mathcal{D}[D_2](\mathcal{D}[D_1](\rho)(\mu))$$

This writing contains a small bug.

- Can you find it?
- Do you know how to correct it?
- Which consequences in letting the formula unchanged?

Exercise 2.

- Do You recognize the language used in the interactive sessions below?

(b)

```
# let rec x = fun u → u + y and y = 5 in x(3);;
```

- ... what will be printed here?

(c)

```
# let rec x = fun u → y(u) and y = fun u → x(u) in x;;
```

- ... what will be printed here?

(d)

```
# let rec onetwo = 1::twoone and twoone=2::onetwo in List.nth onetwo 5;;
```

- ... what will be printed here?

(e)

```
# let rec onetwo = 1::twoone and twoone=2::onetwo in twoone;;
```

- ... what will be printed here?