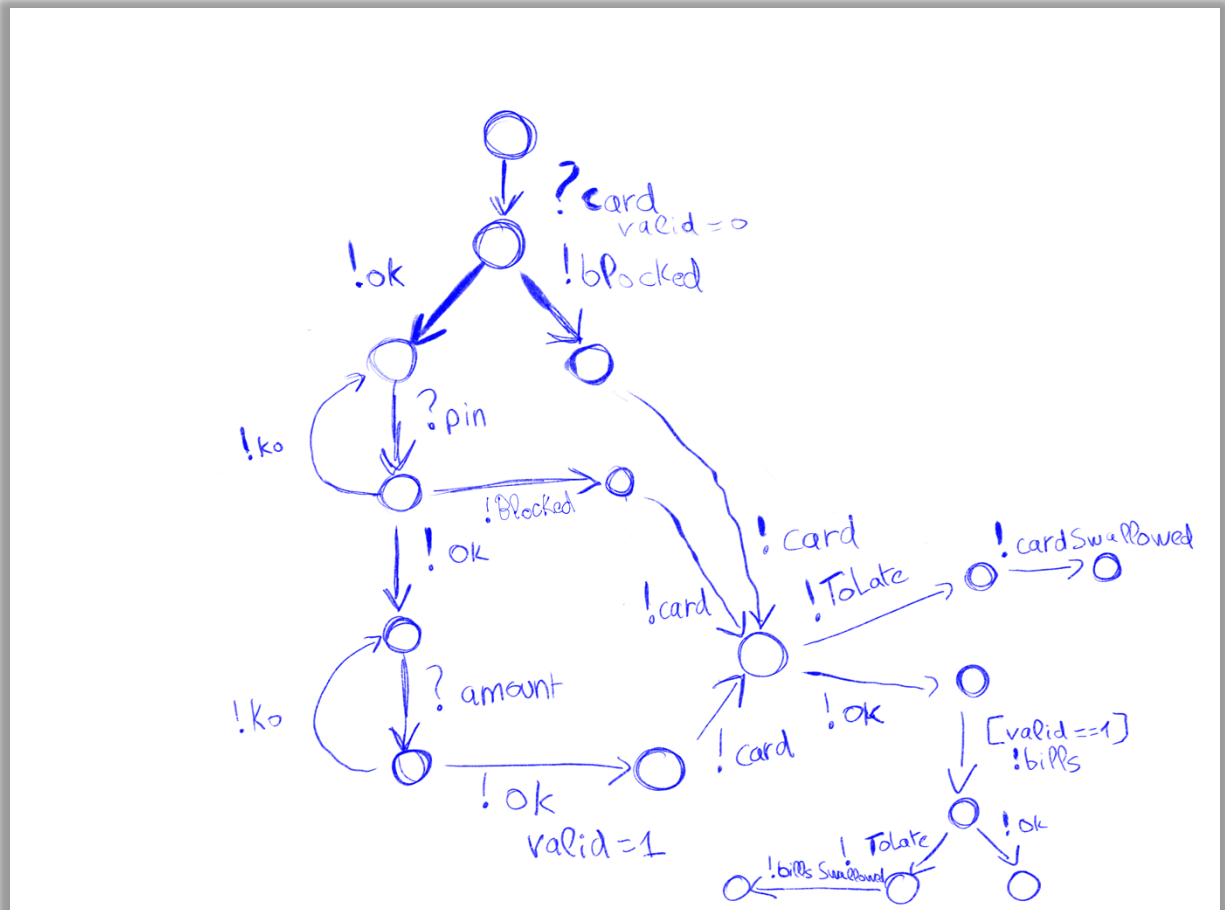Bailleux Pol
Oberson Quentin

Temporal properties for testing

Specification of the automated Teller Machine

Exercice 1:

Exercice 2:

"It is not possible to get the bills without a correct authentication"

- Property 1:

  ```
  never GET_BILLS
  before PIN_OK
  ```

- Property 2:

  ```
  never GET_BILLS
  after GET_BILLS
  until PIN_OK
  ```

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Oberson Quentin

"After the delay has expired, the ejected bills are swallowed by the ATM"

- Property 1:

> SWALLOWS_BILLS directly follows TIME_PASSED

- Property 2:

> never SWALLOWS_BILLS
> before TIME_PASSED

Exercice 3:
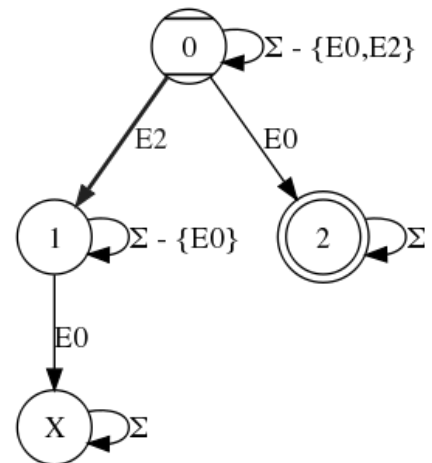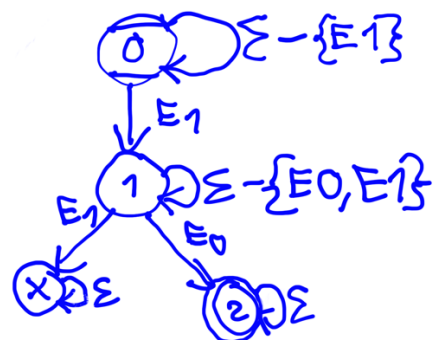
> never GET_BILLS
> before PIN_OK

Figure 1- E0 = PIN_OK & E2 = GET_BILLS

Figure 2 E0 = PIN_OK & E1 = GET_BILLS

> never GET_BILLS
> after GET_BILLS
> until PIN_OK
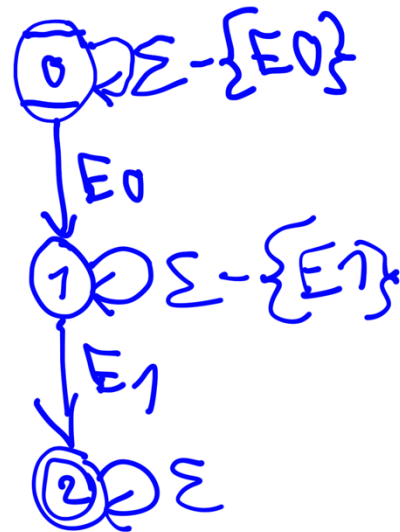
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SWALLOWS_BILLS directly follows TIME_PASSED

Figure 3 E1 = TIME_PASSED & E1 = SWALLOWS_BILLS
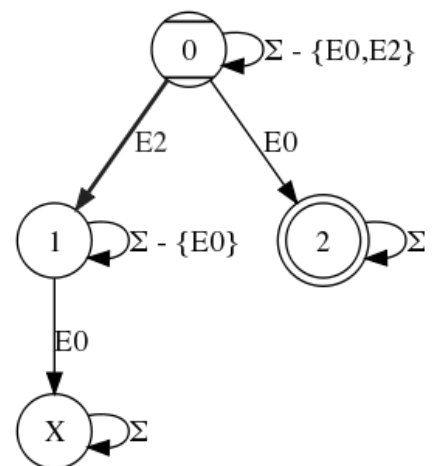
never SWALLOWS_BILLS before TIME_PASSED

Figure 4 E0 = TIME_PASSED & E2 = SWALLOWS_BILLS