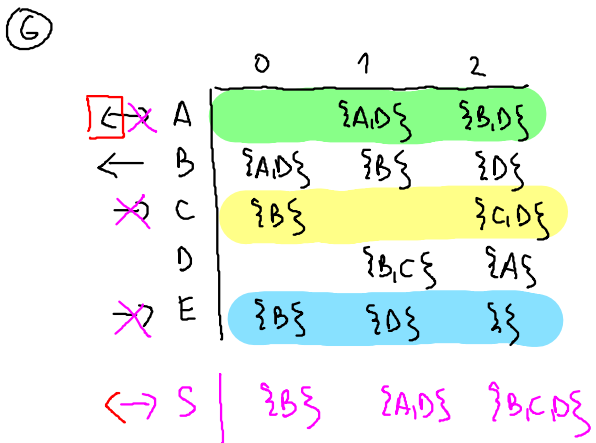
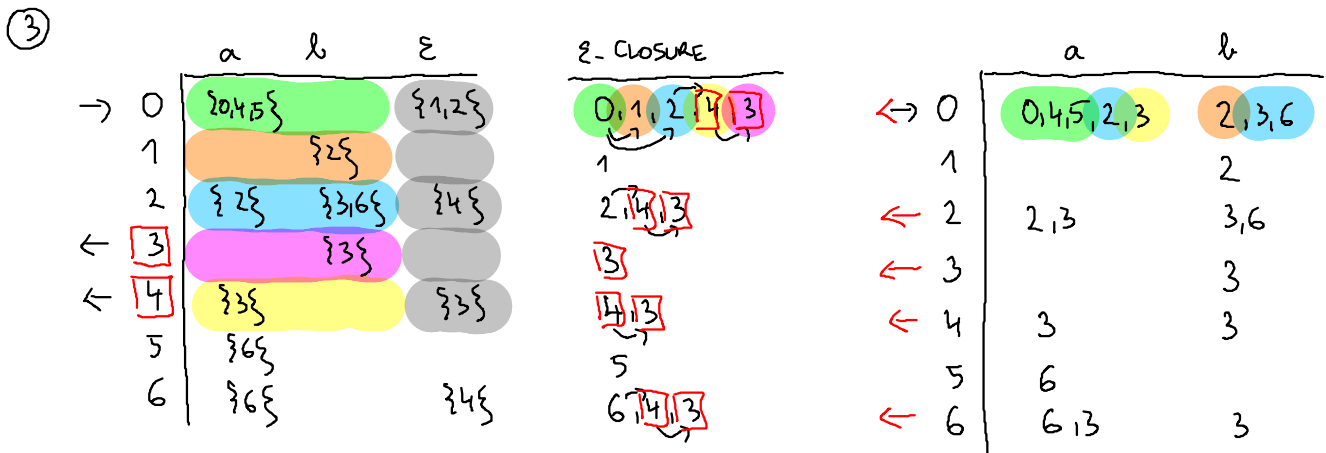


$$\delta: Q \times (Z \cup \{\epsilon\}) \rightarrow \mathcal{P}(Q)$$



①

| | a | b |
|-----|-------|---------|
| ↔ 0 | {0,2} | {1} |
| 1 | | {1,3} |
| ← 2 | {4} | |
| 3 | {0} | {1,2,3} |
| 4 | {2,4} | {} |

| | a | b |
|-----|--------------------------|---------------------|
| ↔ 0 | {0,2} | {1} |
| ← 1 | {0,2} | {0,2,4} |
| 2 | {1} | {} {1,3} |
| ← 3 | {0,2} {0,2,4} | {1} |
| 4 | {} {} | {} {} |
| | {1,3} | {0} |
| ← 5 | {1,2,3} | {0,4} |
| 6 | {0,4} | {0,2,4} |

①

| | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 |
|--------------|--------------|--------------|--------------|---|---|---|-----|----|----|---|---|---|
| ↔ A | D | H | H | A | N | N | I | IV | IV | A | D | D |
| ← B | A | B | B | A | A | A | II | I | II | B | A | B |
| C | A | E | G | N | A | A | III | I | II | C | A | B |
| D | | F | C | N | | A | IV | | II | D | | F |
| ← E | A | E | G | A | A | A | II | I | II | B | A | B |
| ← F | J | A | E | A | A | A | II | II | II | F | B | A |
| ← G | A | G | B | A | A | A | II | I | II | B | A | B |
| H | | F | C | N | | A | IV | | II | D | | F |
| I | K | H | I | | | | | | | | | |
| ← J | A | J | E | A | A | A | II | I | II | B | A | B |
| K | A | A | F | | | | | | | | | |

| | 0 | 1 | 2 |
|-----|---|---|---|
| ↔ A | D | D | D |
| ← B | A | B | B |
| C | A | B | B |
| D | | F | C |
| ← F | B | A | B |

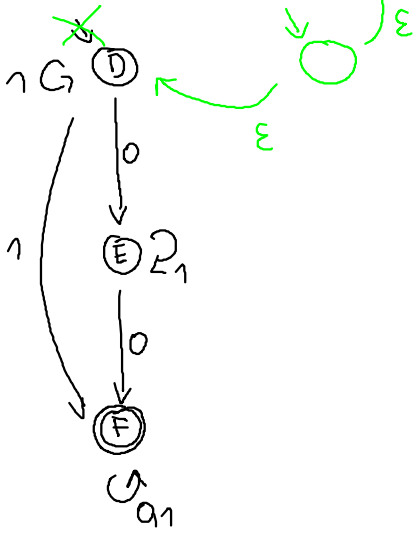
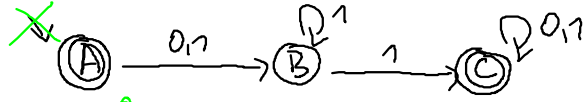
| | 0 | 1 | 2 | |
|-----|---|---|---|---|
| ↔ A | D | D | D | ✓ |
| ← B | A | B | B | |
| C | A | B | B | |
| D | | F | C | ✓ |
| ← F | B | A | B | |

| | | | |
|----------------|--|--|--|
| ← B | | | |
| F | | | |
| C | | | |
| ← A | | | |
| D | | | |

| | 0 | 1 | 2 | |
|----------------|----------------|----------------|---|--|
| A | B | B | | |
| B ✓ | A ✓ | A ✓ | X | |
| A | B | B | | |
| D | D | D | ✓ | |
| F | C | C | ✓ | |

⇒ NESSOU

$L_1 \cup L_2$



$L_1 \cup L_2$
 $L_1 \cap L_2$

