

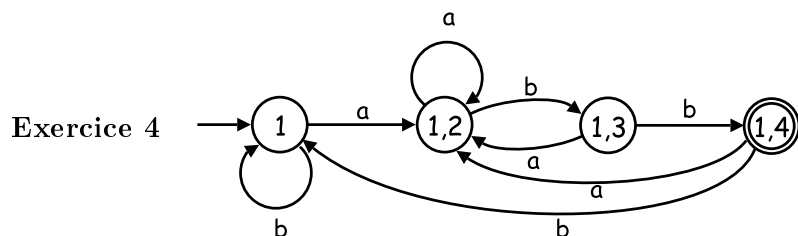
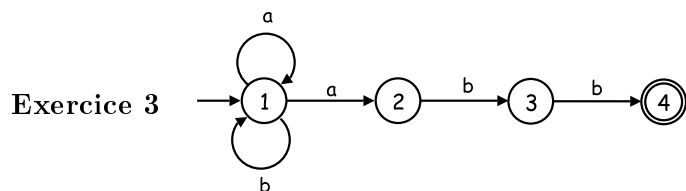
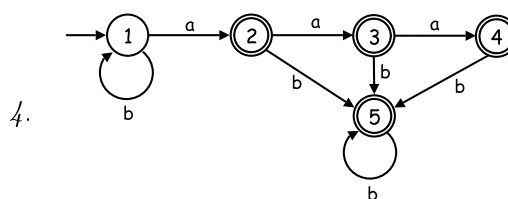
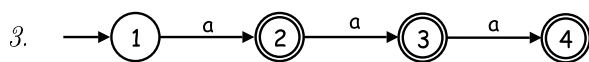
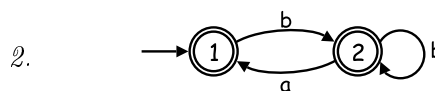
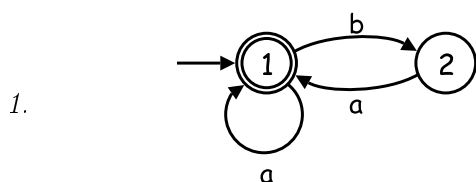
# Algorithmique — IN102

## TD 6

20 janvier 2006

- Exercice 1**
- |                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| 1. $L = (ab)^*$                   | 2. $L = (a) b$                                    |
| 3. $L = a(ba)^*$ ou $L = (ab)^*a$ | 4. $L = (ab)^*a(a c)b^*$ ou $L = a(ba)^*(a c)b^*$ |
| 5. $L = b^*a(bb^*a)^*a(b^* b^*a)$ | 6. $L = ab(bb a)^*$                               |

**Exercice 2**



**Exercice 5** *L'automate reconnaît le langage  $a|(aaa(a^*))$ , i.e. l'ensemble des mots utilisant l'unique lettre  $a$ , sauf le mot vide et  $aa$ .*

**Exercice 6**



```

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etat [2] : # ( B B B [ B ] #
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etat [2] : # ( B [ B ] B B #
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etat [2] : # [ ( ] B B B B #
etat [3] : # ( [ B ] B B B #

```

**Exercice 9** *Cette machine reconnaît le langage des parenthèses dites «bien formées».*