

Notation

Given a set A we denote by A^*

the set of finite sequences of elements in A , i.e.:

$$A^* = \{ a_1 \cdots a_n \mid n \geq 0 \wedge a_1, \dots, a_n \in A \}$$

We denote the empty sequence by $\epsilon \in A^*$

For example:

$$A = \{ a, b \} \quad A^* = \{ \epsilon, a, b, aa, ab, ba, bb, aaa, aab, \dots \}$$