Practice: Regular Expressions

CS236 - Discrete Structures
Instructor: Brett Decker
Winter 2020 Section 2

Regular Expressions: Practice 1

Given the language L below, what is the regular expression that generates L?

$L = \{aa, aba, abba, abbba, abbbba, \ldots\}$

Given the language L below, what is the regular expression that generates L?

$L = \{\lambda, 0, 1, 00, 11, 000, 111, 0000, 1111, \ldots\}$

Given the language L below, what is the regular expression that generates L?

$L = \{1, 12, 123, 1234\}$

Regular Expressions: Practice 2

Given the following regular expression, what is the language L that it generates?

$(ab)^* \cup (ba)^*$

Given the following regular expression, what is the language L that it generates?

$(11)^*0$

Given the following regular expression, what is the language L that it generates?

$11 \cup 0 \cup 2^* \cup 333$

Give the regular expression that generates the language of all days of the week (in English).