LPI Exercises for Chapter 7 — Regular Expressions

Alexander Voigt

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1 Find matching words

Which of the following words are matched (ϵ is the empty word)?

Regular expression	words	
ab	a b c ab abc acb	
a(bc)*	a ab abc abcbc	
abc*	a ab abc abcc abcbc	
abc+	a ab abc abcc abcd	
a(b c)d	ad abd acd abcd	
ab?c	a ab ac abc	
(ab)?c	a c ab abc	
ab{2,4}	a ab abb abbb abbbbb	
(ab)\1	a ab abb abab	
a b*	ϵ a b aa aba bb bbb	

2 Give a RegEx

Write down a regular expression that matches all the following words.

words		Regular	expression
MSSM, CMSSM, NMSSM E6SSM, CE6SSM, E7SSM			
a b ab abab aabab			
xml tags (incl. \forall content):	<xml></xml>		

Q: What did one regular expression say to the other?

A: .*