

CSE 413 HW 7

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1>

`(a|xy)*`

two strings that matched: 1. axy 2. aaaxy

two strings that not matched: 2. xay 2. axaya

des: this regex matches all strings that consisting of zero or more 'a' or zero or more 'xy'

`b(oz)+o`

two strings that matched: 1. bozo 2. bozozo

two strings that not matched: 2. ozbo 2. ozozbo

des: this regex matches all strings that begin with 'b', end with 'o' and have 1 or more occurrences of 'oz'

`((ε|0)1)*`

two strings that matched: 1. 01 2. 0101

two strings that not matched: 1. 10 2. 1100

des: This regex matches all strings that have zero or more occurrences of '1' or '01'

2>

1. `((a|b)*a){3,}(a|b)*`

2. `(a+|(b{2})+)+`

3.

`[^[^abc]]|^[az]]*a^[^[^abc]]|^[az]]*e^[^[^abc]]|^[az]]*i^[^[^abc]]|^[a-z]]*o^[^[^abc]]|^[a-z]]*u^[^[^abc]]|^[az]]*`

3>

`(([0-9]+)|(0[0-7]+)|((0x|0X)[0-9a-fA-F]+))(u|U)?(l|L)?`