# 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 consisiting 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

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

des: This regex matches all strings that have zero of 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)?**