Morning.



Exercises 1 RegExp for

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The set of all strings of 0's and 1's not containing 101 as a substring.

$$(0+1)^* 101 (0+1)^*$$

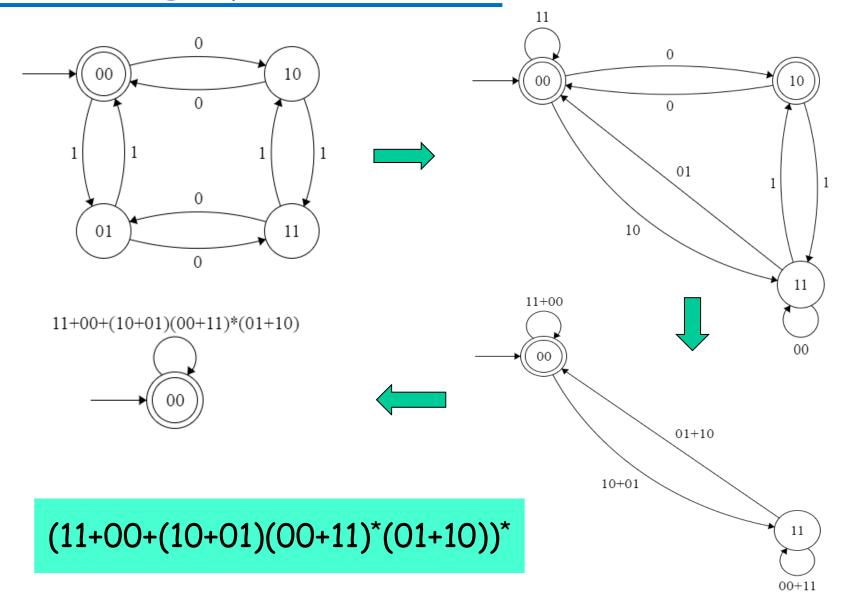
 $(0+\epsilon)^* (000^*+1)^* (0+\epsilon)^*$
 $0^*1^*(000^*1^*)^*0^*$
 $(0^*1^*100)^*(\epsilon+0^*+0^*1^*1+0^*1^*10)^*$

Exercises 1 RegExp for

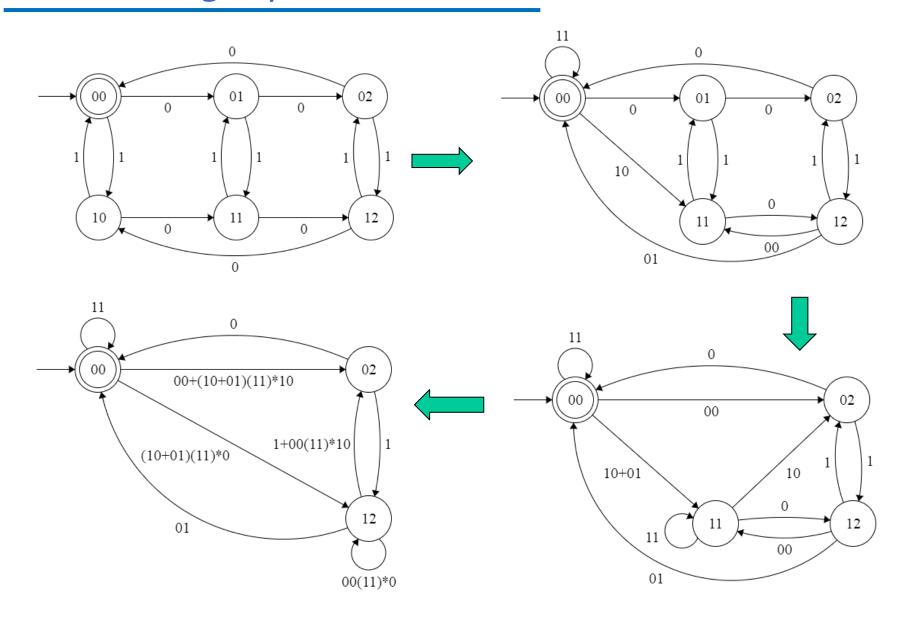
The set of strings of 0's and 1's whose number of 0's is divisible by five and whose number of 1's is even.

0000011, 0000101, 0001001, 0010001,

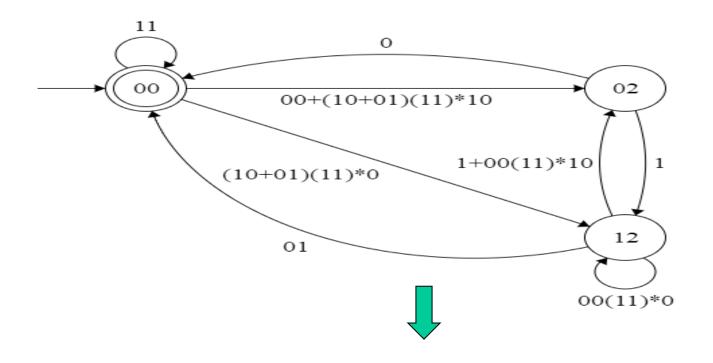
DFA \Rightarrow RegExp for L("00-11")

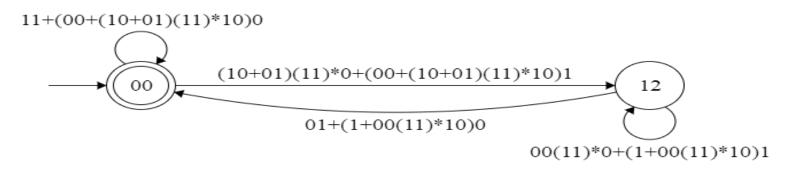


$DFA \Rightarrow RegExp for L("000-11")$

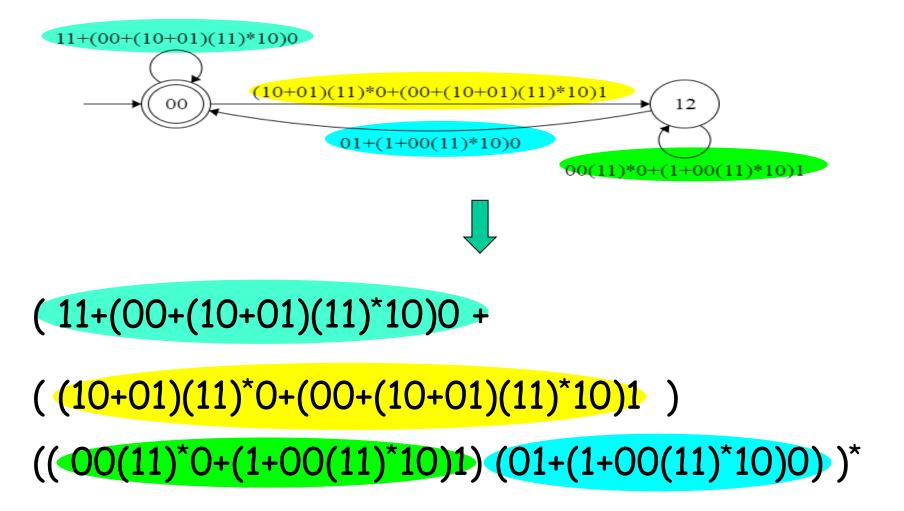


$DFA \Rightarrow RegExp for L("000-11")$





$DFA \Rightarrow RegExp for L("000-11")$



RegExp for *L*("000-11")

RegExp for *L*("000-11")

```
L("00-11")
         (11+00+(10+01)(00+11)*(01+10))*
 L("000-11")
(11+000+(10+01)(000+11)*(100+010+001)+001(000+11)*(10+01))*
 L("00000-11")
       ?? ??? ???? ? ??? ???
```

Good good stilly day day up