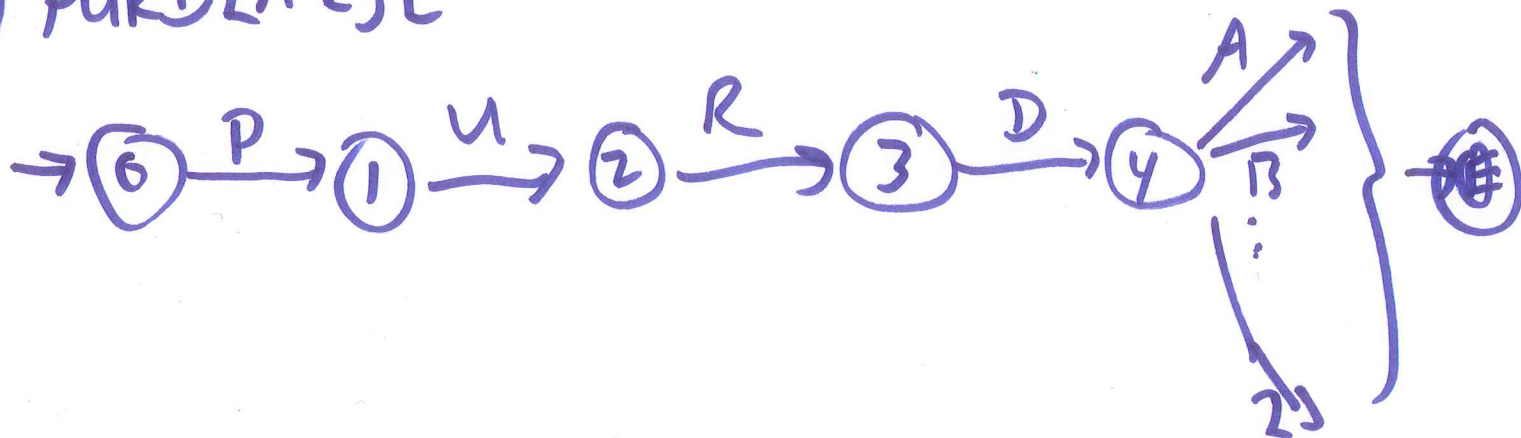
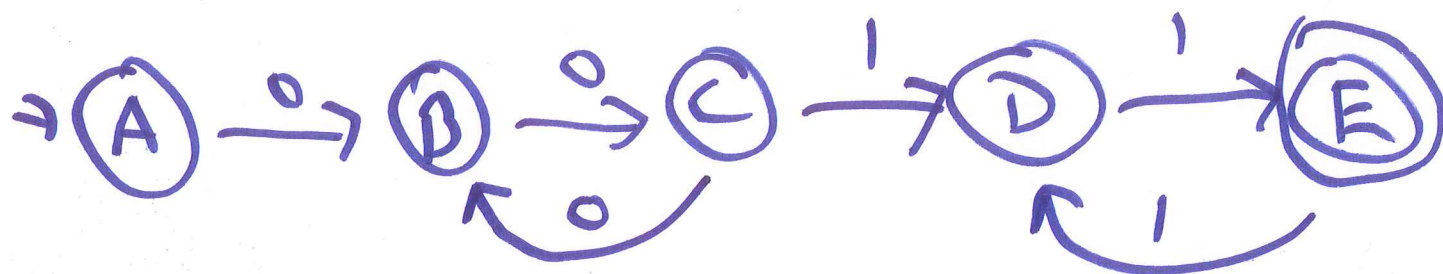


1)  $PURD[A-Z]E$



2)  $(00)^+(11)^+$



	0	1
A	B	-
B	C	-
C	B	D
D	-	E
E	A	D

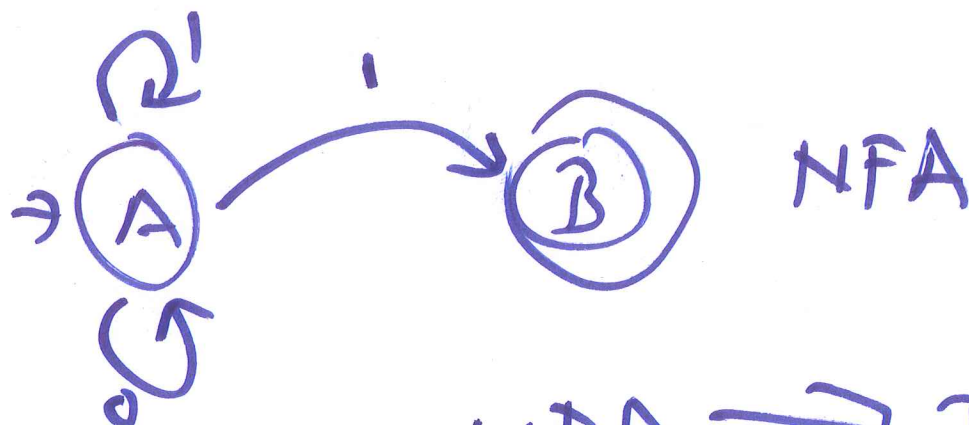
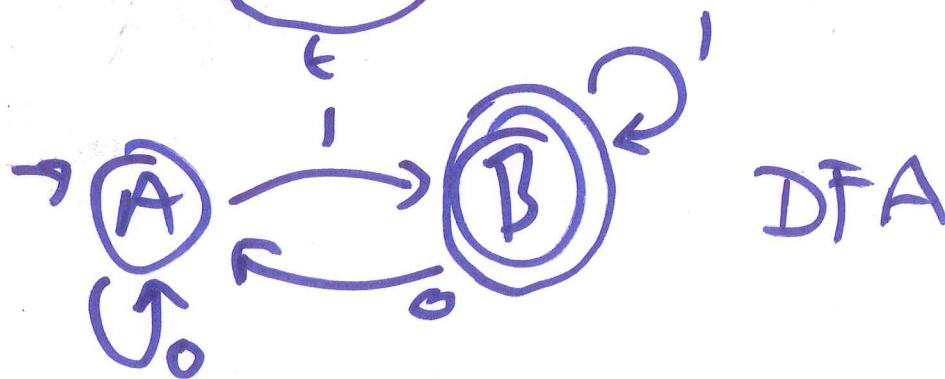
3)  $(01)^*$



$$0^+ = 0(0)^*$$

$0^*$  : zero or more 0's

4) All strings over  $\{0, 1\}$  ending in 1.



NFA  $\rightarrow$  DFA?

①

	0	1
A	A	A,B
B	-	-

NFA

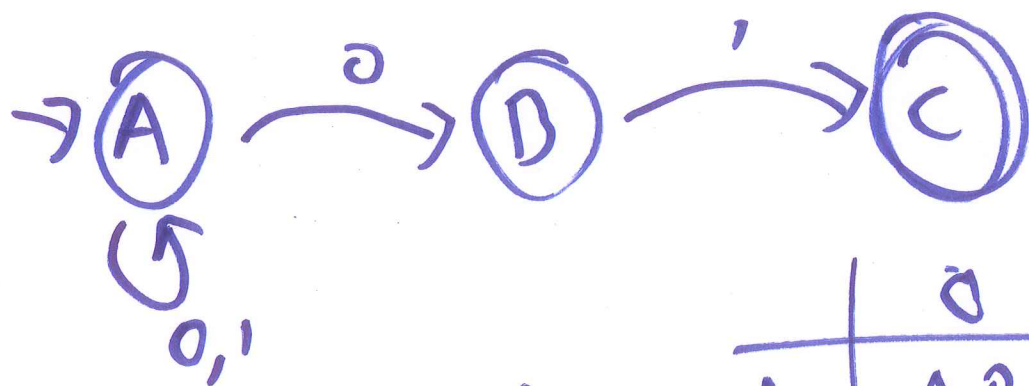


	0	1
A	A	AB
AB	A	AB

DFA



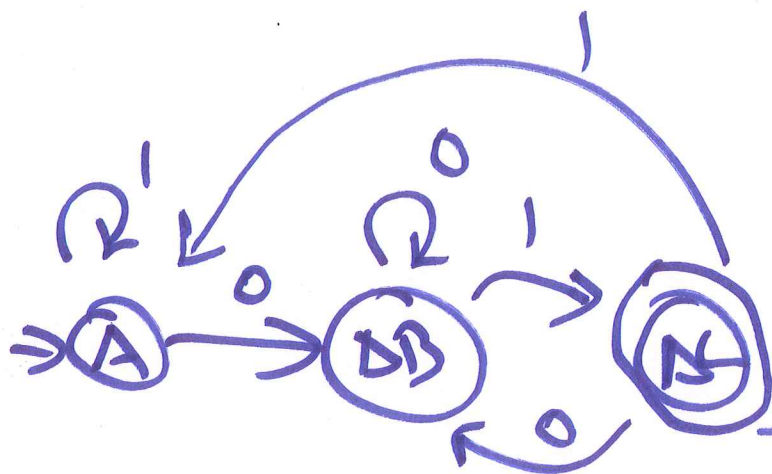
5)  $[01]^*01$



NFA

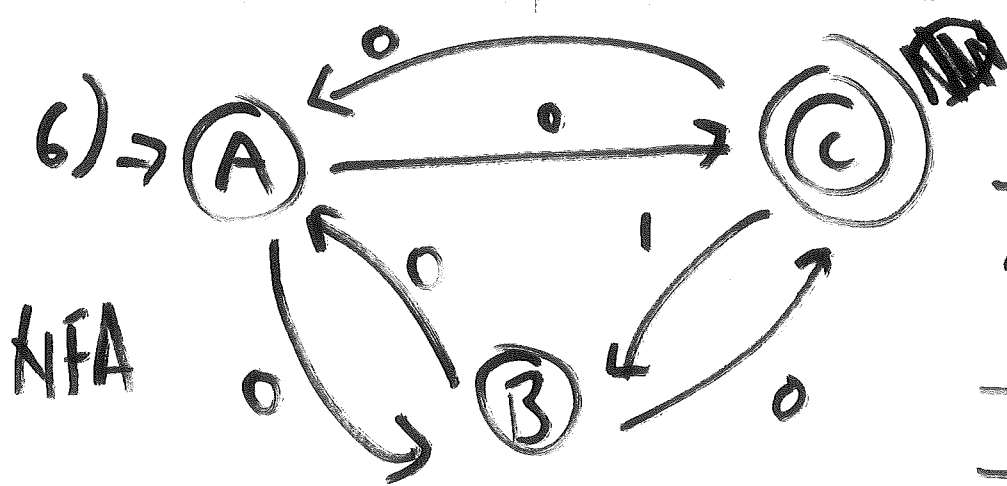


	0	1
A	A, B	A
B	-	C
C	-	-



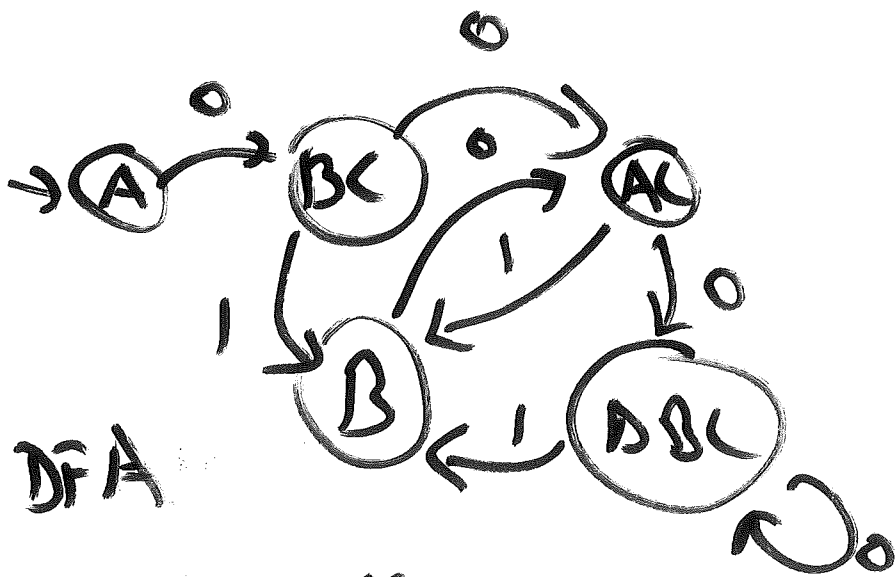
DFA

	0	1
A	AB	A
AB	AB	AC
AC	AB	A



	0	1
A	B, C	-
B	A, C	-
C	A	B

" 0, 00, 000...  
010, 0101010, 0010101010 "



	0	1
A	BC	-
BC	AC	B
AC	ABC	B
ABC	BC	B
B	AC	-

~~$0(0^*10^*)^*$~~   $\Leftarrow ?$

$\Rightarrow 0^*(10)^*0^*$