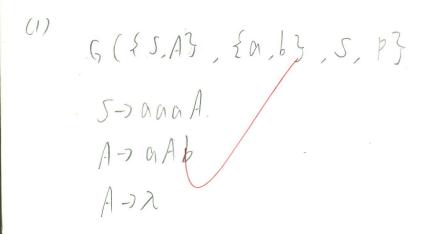
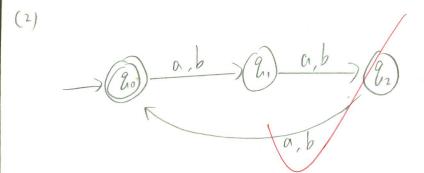
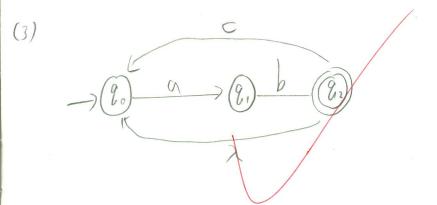
國立清華大學試卷

	記		4		分
1	10	2	10		
3	10	4	10		
5	8	6	(0		
7	8	8	10		
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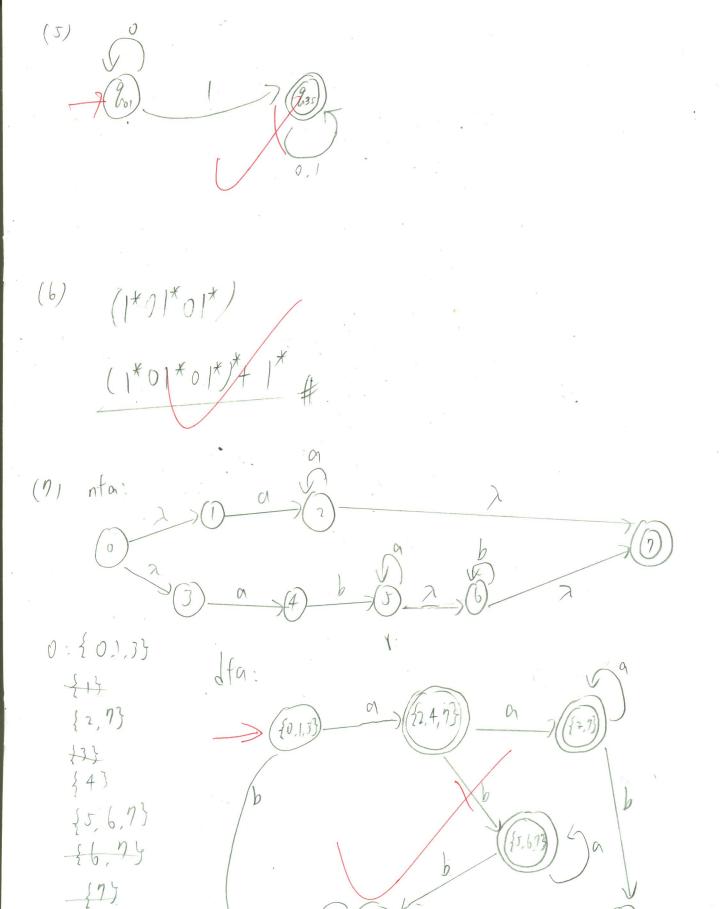


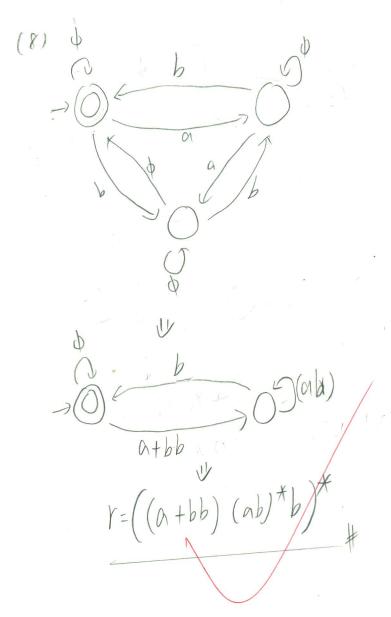


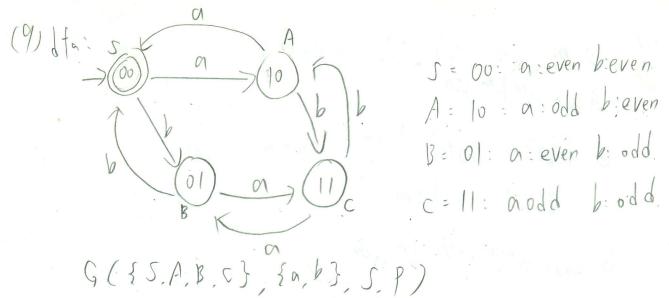
If L is regular, $X \not = f - regular$ grammar $G(\{S_0, S_1, S_n\}, \{a_1 a_2, a_n\}, S_n, P_n)$ $S_0 \rightarrow 0, S_1$ $S_1 \rightarrow 0 = S_1$ $S_{n-1} \rightarrow 0 = S_n$ $S_0 \rightarrow W = 0, 0 = 0 = 0$ $S_0 \rightarrow 0 = S_1$ $S_1 \rightarrow (0, S_1)^R = S_1 = S_2$ $S_1 \rightarrow (0, S_2)^R = S_2 = S_2$ $S_1 \rightarrow (0, S_2)^R = S_2 = S_2$

 $S_0 \rightarrow (\alpha_1 S_1)^k = S_1 \alpha_1$ $S_1 \rightarrow (\alpha_2 S_2)^k = S_2 \alpha_2$ $S_1 \rightarrow (\alpha_1 S_1)^k = S_1 \alpha_1$ $S_1 \rightarrow (\alpha_1 S_1)^k = S_2 \alpha_2$ $S_1 \rightarrow (\alpha_1 S_1)^k = S_1 \alpha_1$ $S_1 \rightarrow (\alpha_1 S_1)^k = S_1 \alpha_1$

.







 $J \rightarrow \lambda$ 5-> aA. 5-36B A-) a.s AZbC B -> & S B-) a & C - aB

CABA # $(10) \quad \bigcirc M \qquad \qquad \bigcirc M = \bigcap_{m \in \mathbb{Z}^m} \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m} \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m} \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m} \bigcap_{m \in \mathbb{Z}^m} M = \bigcap_{m \in \mathbb{Z}^m$

3 |xy| \in |y| \frac{1}{2} | \frac{1}{2} \in \text{1} | \frac{1}{2} \in \te

@ Wi= MH(i-Uk lm or2m

, 1=2

Wz = am+k bm azm

m+k+m=2m+k>2m

=> Wz not in L

o不符合 pumping lemma

· =) L is not regular

regular, 图任何string 含有連續的字元出現(ex: aa, bb) to Fatt Language, PI r= (a+b)+(aa+bb)(a+b)+ \$ EE, Language 65 regular expression