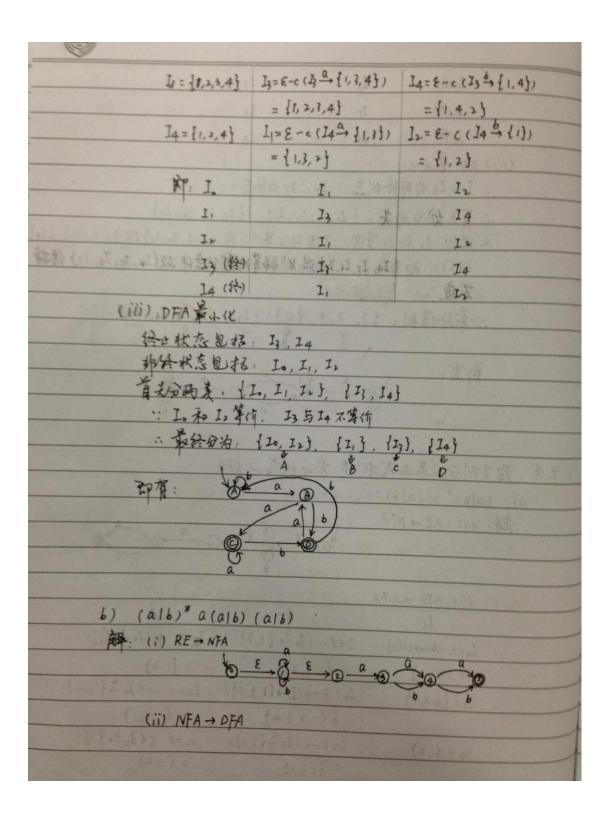


(A)		
d) (a/b)* abb (a/b)*		Dank And The
解: (i) RE→NFA		
38206	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Q 3 E
4		
(ii) NFA→DFA		2515
_ li	a	6
Io = E - closure(10)	1,2-0(1,2,1,3)	In= E-c ( Zo 6, f13)
= {0,1,2}	= {1,3,2}	= {1,2}
	I= E-c (4 4 (1.33)	13 = E - c(2, b, 11,43)
	= {1,2,2}	= {1,4,2}
12= {1,2}	1,= 8- ((1, 0) (1,3))	In= 8-c(1, 6, 1, 1)
	= {1,7,2}	= {1,2}
13={1,4,2}	I,= E-c(1, 41,33)	I4= 8-c( ]3 4 (1,5)
	= {1,3,>}	= {1,5,2,6,7}
I4= {1,5,2,6,7}	Is=8-c(Ia a {1,3,6})	I6 = 2-c( I4 6 {1,6})
	= {1,7,6,2,7}	= {1,6,2,7}
Is={1,2,3,6,7}	4=8-c(49(13,63)	17: 8-c( 15 b, {1,4,6})
(+4.1)	= {1,3,6,2,7}	= {1, 4, 6, 2,7}
16={1,2,6,7}	Is= 8-c(4 = {1,3,43)	
14,60.63=	= 11,3,6,2,7}	= {1,6,2,7}
I7 = {1, 2, 4,6,7}	Is=8-c(179{1,3,63)	14: 8-c(1/41,6,5)
	= {1,3,6,2,7}	= {1,6,5,2,7}
ap. Io	I,	12
I,	1,	I <sub>3</sub>
I,	I,	1,
Ib Ib	I,	I4 * 199
1449	Is	I.

Is (St.)	Is	I7	dashed		
工供	Is I	16			
<b>上(铁)</b>	15	<u>I</u> 4			
(iii) DFA 最小化					
· I.~ I3 为非给状态, I4~ I7 为终态					
: 首先分为两类	· 真先分为两类:{ I.,				
又因为 I。和工等价,工与对不等价,故证,工,工,对折为(Io, Io)					
{133}; 而 {14, Is, Is, 新满足"弱等价类"的条件,故{14, Is, I6, I7} 课措					
不变:- 3 Cadital (1)					
二家经得到: {I。, I,}、{I,}、{I,}、{I,}、{I,}					
ABCD					
	0	- C -	<u> </u>		
6					
394 タフィーかまはがかは 長しばた・ カエム					
a) (alb)* a (alb).					
解: (i) RE→NFA					
0 € € 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0					
b					
(ii) NFA → DFA					
li		a	6		
Io= E-closure(fof)	I,= 8-c ( L	٩ {1,3})	12=e-c(10-)[1])		
: {0,1,2}	= {1,3,2	7 0	= {1,2}		
I1= {1, 2,3}	[] 2 - 2 = E [	(3{1,3,4})	I4= ε-c(I, →{ 1,4})		
	= {1,2,	3,43	= {1,4,2}		
I2 = {1,2}	I= &-c(.	$I_2 \xrightarrow{\alpha} \{1,3\}$	$I_{2}=\xi-C(I_{2}\xrightarrow{b}\{i\})$		
= {1,3,2} = {1,2}					



Ii	a	b
Io = E-closure(fo))	I= E-c( Jo = {1,3})	I2= E-c (Io b) {1})
= {0,1,2}	= {1,3,2}	= {1,2}
L1={1,2,3}	13=8-c(1, 0, (1,3,4))	14= E-c(I, 6) {1,4})
विद्यों दिये (का (वा)		= {1,4,2}
I2={1,2}	L1= 8-((12 0 (1,3))	In= {-c(In b) {1})
- 67°	= {1,3,2}	= {1,2}
I3={1,2,3,4}	Is= E-c ( I3 4, 5, 4, 5	) 16=8-c(13b, [1,4,5])
	= {1,2,3,4,5}	= {1, 2, 4, 5}
I4={1,2,4}	17=8-0(14 4 (1,3,53)	I8= E-c(I4→ {1,5})
	= {\(2,3,5\)}	-{1,2,5}
Is = {1,2,3,4,5}	25= €-c (Is a {1,3,4,5	3 16= 8-c(I, b, {1,4,5})
	= {1,2,4,5,5}	= {1,2,4,5}
16={1,2,4,5}	17=8-0([6-11,3,5]	) Iz= \(\int \cdot (16 \frac{b}{b} \{ \ldot (15 \frac{b}{b})\}
(日日) 東南 下十九(日日)	= {1,2,3,5}	2012
7= (1,2,3,5)	13=8-((17= {1,3,4})	14= E-c(I, b→{1,4})
	= {1,3,4,2}	= {1,4,2}
18={1,2,5}	1,= 8-((182+1,33))	12=8-c(Ix = 113)
	= {1,3,2}	= {1,2}
RP: Zo	I,	12
' I,	I <sub>3</sub>	14
Iz	I,	12
15	I <sub>5</sub>	4
14	I7	18
上的	15	16
工。(转)	Ιτ	I <sub>8</sub>
77 (经)	I,	I <sub>4</sub>
18(株)	I,	Iz

