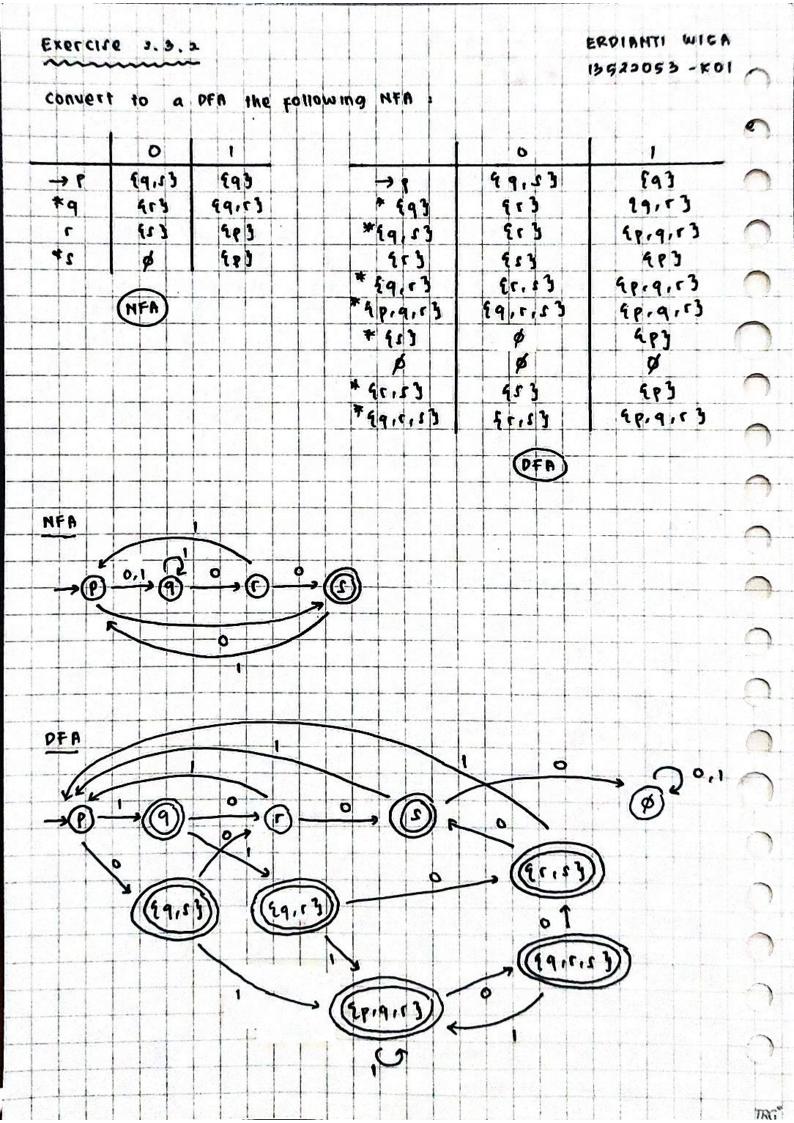
## PR 2 TBFO

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Exercise 2.3.1

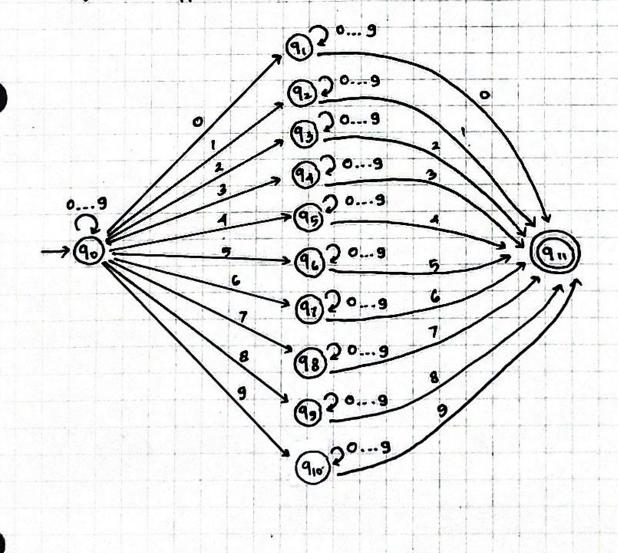
convert t	0 0	FA	the	following	MFA	:
-----------	-----	----	-----	-----------	-----	---

	0	1		0	1
→P	{p,q}	{P}	-79	18.93	£93
9	fry	£ c }	19.93	40,9,03	40,03
	£23	ø	19,13	9,9,53	163
2*	623	45}	49,9,53	82,7,9,93	40,53
	(NFA)		* 19.9.53	90,9,1,53	26 .2.2
	(MFB)		* { { { { { { {q, {e, s}} } } }	40,9,5,53	19,0,5
			* 4 91 6 , 5 3	28.9.53	62,93
			* 40, 17	49.9.53	40.53
				(PFA)	
NFA					
$-\alpha$			00,1		
→(P)-	0 (9)	0,1 €			
, <b>W</b> -	10				
OFA					
				$\Omega^{\circ}$	
$\alpha'$		0	~ 0 /	3.6	
→(P)-	→(4P.93	)(11	19,13) - ((21,0)	1, r, s 3)) → ((6 c	8,4,1)
<u>,                                    </u>					
				10/1/	
	`.	3(1	P1 3) - ((P)	((2,0)	ir.(3))
				~	5
	1			0	
		Carried Company of the Company of th		[18] 12 - 이렇게 보고 있는 사람이 이번 이렇게 되었다. 이렇게	



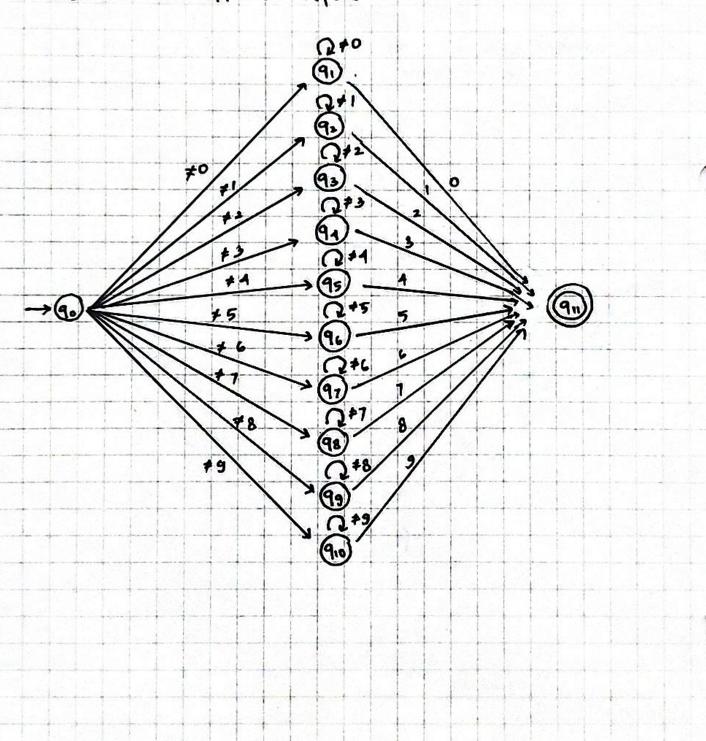
of nondeterminism as much as possible.

a) The set of strings over alphabet \$0,1,..., 93 such that the final digit has appeared before.



TRU

b) The ret of Mrings over alphabet to ... 93 such that the final digit has not appeared before



Exercise 3.3.A

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c) The set of strings of o's of tis such that there are too o's separated by a number of positions that is multiple of 4. Note that o is an allowable multiple of 4.

0,1	0,1
95	<b>(1)</b>
0.1	10.1
(	94)

	0	and the Association
→ 9·	9913	ø
q,	194,953	933
92	ø	ø.
93	1943	1943
94	1953	9993
* 95	99.3	49.3

## Exercise 2-4.1

- perign NFA's to recognize the following ret of strings.
- a) abc, abd, and ared; I = 9a,b,c,d3

a,b,c,d		1
0 0	6 C'd	1
→@ <del>~</del>	\$ 95 → (Q.)	)
al		+

790	190,913	1903	49.3	9903
91	1923	1953	Ø	Ø
92	16	Ø	4933	ø
93	8	Ø	Ø	4943
* 94	Ø	ø	ø	Ø
95	Ø	ø	4903	6963
*96	Ø	ø	Ø	ø

b) 0101, 101, and 011

9
9

<b>⊕</b>	<b>(19)</b>
9	
(II)	

-> qo	190,917	490.96
4.	ø	49.3
92	1953	1963
93	ø	4943
794	ø	ø
* 95	85	Ø
96	9973	ø
97	ø	4984
* 48	ø	ø

THE.

TRG

→®	, b, c a b €	) - (	3
(15) (1) (1)	)	<b>\</b> @	
	a	6	c
→90	490,913		190.953
91	ø	49.3 Ø	ø
*92	Ø Ø	ø	9943
*94	Ø	ø	
95	9963	Ø	Ø
+96	Ø	Ø Ø	Ø Ø