## NFA (without E) to DFA

to DFA	
NFA - DFA (SWELL)	
NFA - DFA (subset construction method	1)
$0 \longrightarrow (9_{0}) \longrightarrow (9_{1}) \longrightarrow $	-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
P	
step1 Identify given NFA	
$M = (Q, Z, d, q, f)$ $Q = \frac{1}{2} q_0, q_1, q_2, q_3 + \frac{1}{2}$	
5 - 8016	
$ \frac{\sigma}{Q \times \Xi \rightarrow 2} \qquad \frac{\Xi = \{0, 1\}}{q_0 = q_0} \qquad F = \{q_3\} $	4
10 = 90	
$\omega \setminus \Xi$	
$\rightarrow 9_0 \mid 9_0 \mid 9_0 \mid 9_1 \mid 9_0 \mid 9_$	
9, 9, 9, 9 $9, 9, 9, 9$ $9, 9, 9, 9$	-
	7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	71,0)1
× 93 / § 93 4 / 93 4	70.4.7
$\frac{1}{\sqrt{2}} \int_{-\infty}^{\infty} \frac{1}{\sqrt{2}} \int_{-\infty}^{\infty$	£1)
step2: equivalent DFA is m'=(a/z', o', q'	
$\Sigma' = \overline{z} = 90,19$	
$Q \setminus \Sigma$ $Q = [9,7]$	
$\alpha$	al 1.
O Pinitial:	state
OF NEA	1
$\Rightarrow [9,] \qquad [9,9,] \qquad \text{Of NFA}$ $T \qquad \qquad [9,9,] \qquad \text{Crepresen}$	tation
change change	1
# 1	97 -
19 9 9 2 [ 9 9 9 ] [ 9 9 9 9 7 70	1
[90,91,92] [90,91,92] III [70,11,72,13] IV	0 0 +
1 [ 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,	1 01 )
* [9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9	
TV	
20,1	
and an	-
$(10) \rightarrow (1997) \rightarrow (189,927) \rightarrow (19,9,9293)$	))
$\rightarrow ([9,]) \rightarrow ([9,9,]) \rightarrow ([6,9,42])$	<u>v</u>
T T	,
Q'= { [9, 7, [9, 9, ] TE, [9, 9, 92] TE, [9, 9, 92 9	37,08
Q = { [9, 7], [9, 9, 7] II, [9, 9, 92] III, L9, 1, 42 1	
F'= { [9, 9, 92 93] TV	
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