

Convert NFA W DFA

- In NSA, when specific ilp a given to count state, marchine gres to multiple states. It can have zero, on a more - In DFA, when a specific input is given, DFA has als are more an agut symbol.

Let M= (\$72, S, I, f, so, F) is an NFA which accepts LIMI- There should be equivalet DFA devote ing M'= (S', I', f', do', F') such that L(M)= ((M')

Steps for converty NFA to DFA

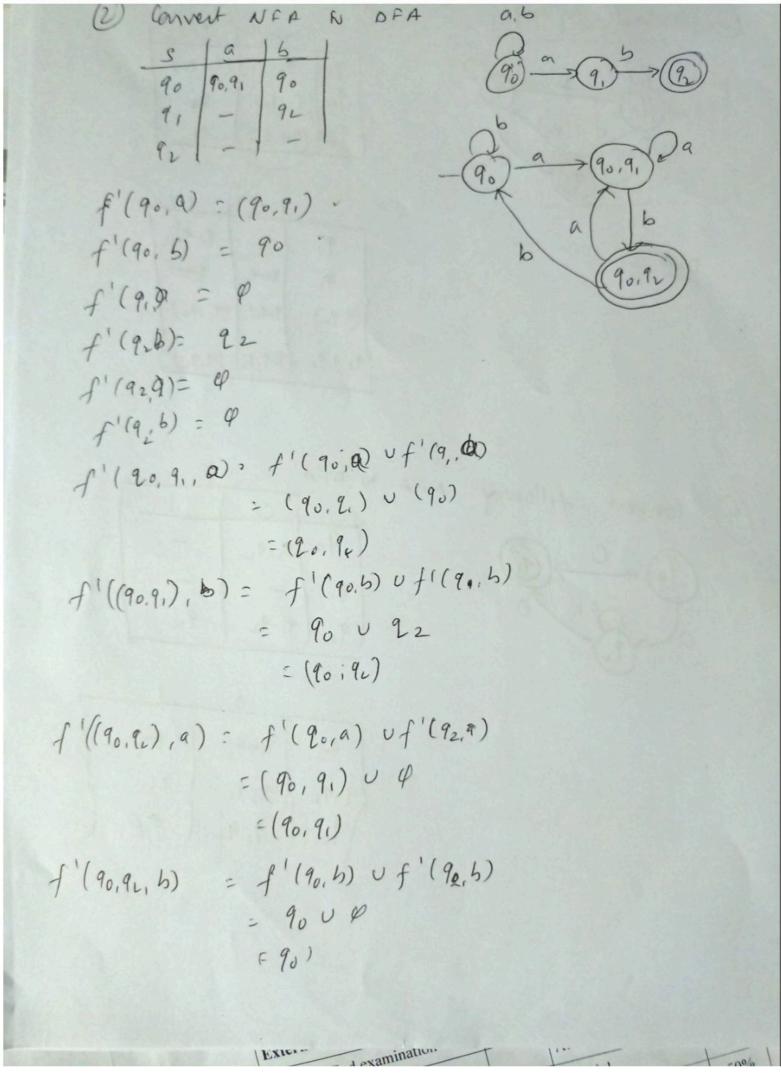
1. Frihally s'= 4.

- 2. Add So O NFA NS! The find tearson from start distate
- 3. In S', find persible set of states for each input symbol. If set of states in net in S', then add it hos!
- 4. In DFA, find stale will be all stales which combin F(find states of MA)

bramp'e 1 Convert given NFA to DFA

Transette trable is State 0 90 \$0,91 91 /9,1923 91 92 | 92 | {91,92}

Now we got, obtain f'hansition for stale 90 f(90,0)= 90 f'(9,,01)= 9, Now f' for stale q,, f (9:,0) = (9,92) new transit f(9,1)= 9, f' for stale 92, f'(92,0) = (92) f'(92,1)=(9,.92) Na obtain f'an (9, 194) f ((9,92),0) = f (9,,0) v f (92,0) = 90-4- (9,,92) U92 = 9,192) f'(9,9,1) = f(9,0) U f(92,1) = 9, 0 (9,192) = (9, ,92)



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