How to convert NFA N into FSA M s.t. L(N)=L(M)

QbQbaba gends 003 8

803 9313 5 000 33 930-100 333

e-g.

N=(SN, So,N, Z, R, FN)

A deterministic process simulating the

NFBA. over a state set that is

the power set (i.e. soft of states)

Motation

write Elp) by shat p to man { q | (p, 2) + x (2, 2) }

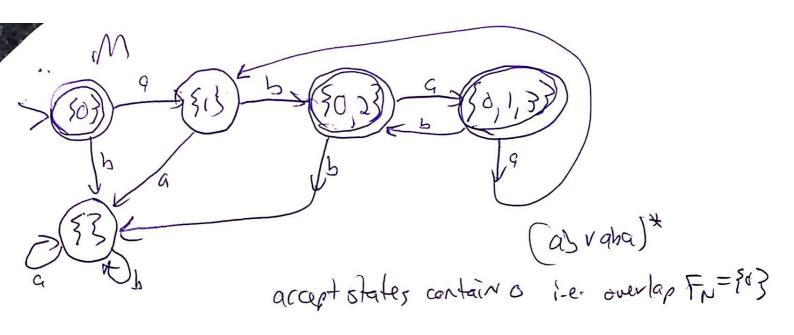
ro E(3) = [3,0] E(2)=[13] E(1)=[13] E(0)=[60]

The desired machine M 3 (Sm, So,m, E, F, Fm) Sm = P(SN) "one state in M is a set of states from N" SO,NI = E(SO,N) anywhere you could get in W from So, reading of f(p,a) for pesm i.e. a set of NFA states and at 5 There is NFA transition

THA state N from n to m an FSA Hatep accepts HF Fm= {pesm pn FN + }? it overlaps the set of accepting NFA states Claim: L(N)=L(M) i.e. it contains an accepting AF by induction on length

if string.

NFA state.



Always close under &

in general on could have 2 states, exponential blowy.