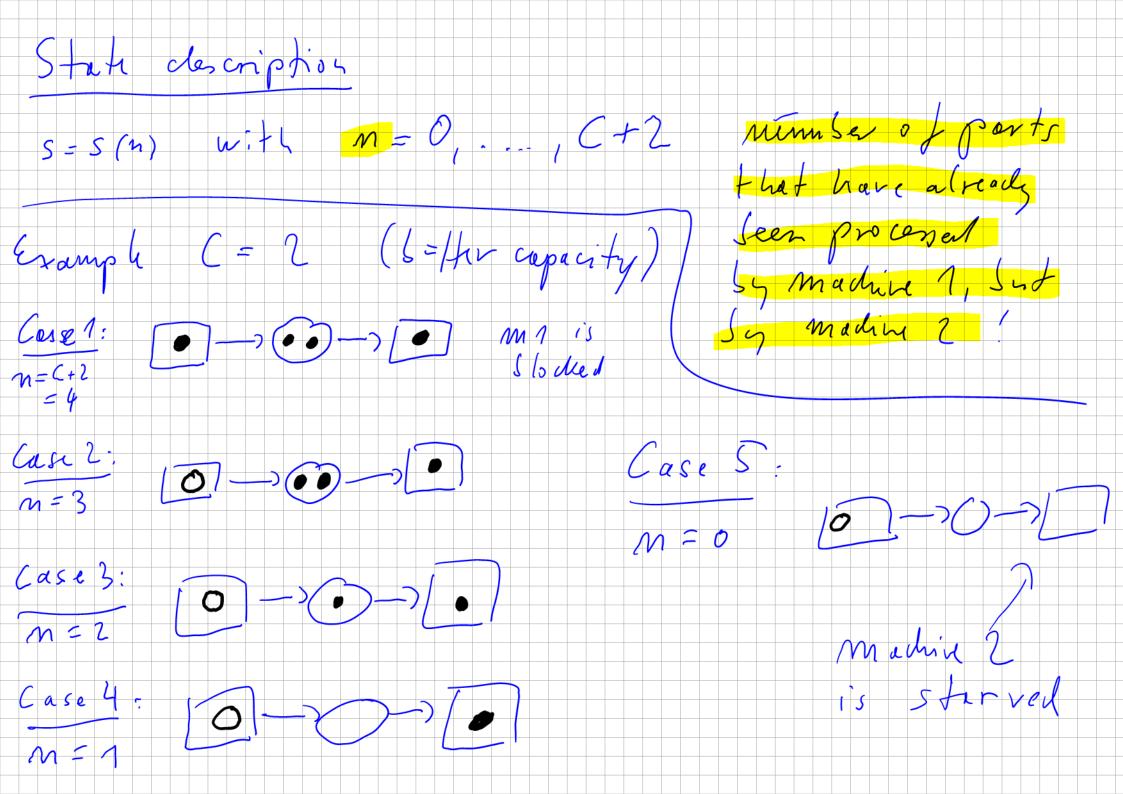
Two modine flow line with reliable madring moting discrete firs) makhin nera sterrad second a Stocked first madrine can Se Stocked second in con se starved Part already processed Sy blocking after service (BAS) madrine 1 =) madring 1 is Stocked median 1 Processy Line Tresp(h.) = ECT, 3 = A madria 2 processy time To verp (My) Part not yot. =) 1= 2 7₂) = 1/_{1/2} proaged Sy medin 7

We have two possis a events 2 Vent 1: Madrine 1 Completes event occurs with rate on medie ? Com lets processing of a party event occurs with rate /2

Analysis: KPI TH, Invendory Z (In expectation) Due need state pulations

we need a state clescription. Districte des crise the state of the System at any monent in time??? out a storred madrine 2! a We cannot have a state with a mon-feel Suffer and a Stoked medrine 1 1 Simultanesasly!



Trungition dia gramm Second on madin 2 machin

So for C=2, we have these m=0, -:, 4 We an interested in State production Thou The March 174 Let us agame Hut we already know 110 -- 1/4. Can we cletermin the throughput TH of the line in this case (i.e., known To ... Tig)? THE throughput through madine I (Throughput is
THE throughput through muchine I completed parts)

Per time unit)

me work: a) Defermine TH, in terms of THz, i. atter words How does TH relate J) five a formula to compute

TH, in terms of TonTh, My My M2

C as needed !! c) five a similar pomme for THZ.

d) Line a Johnala to de termine the averge number on of Ports already processed 13 madrie 1 and 5 I'M in the Sylen, i.e., not get Processed 65 madine 2 (average in van tovy)