

Def. Automoto A hos 5 elements 1. n: Int Dimension of A 2. I : Vector Initial ( has n elements) Ao: nxn Matric Multiplier for Input = 0 a. An: non Matric Moltiplier Fox Input = 1 G. F. Vector Final ( has in elements) Automoto mouseus Binary Input - widoun dable [82] 3 42 84 (F, F) Function F: (Ffinite) Par Input i = u, u, u, Binzog, u; 2 { 0 mão 1} F = I × A (× F 2 I × Au, × . × Aun × F I × ho/An × P z oouble (f\_rest)

Fi = lim I × Ai × Ao - × F f; 50 do 20 20 120 × Ao 500 21 7 500 fi . { lim Fi if lim exists

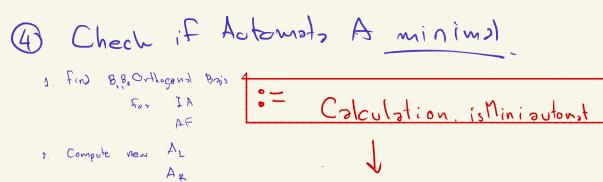
undefined if lim doesn't exist

togni - stemote () 1) n. Int g between Elements 2) I: double [n] double , double , .... double, double, ... ; between row 3) Ao: double [h] Th] A, doubleth [n] dobleg 4) F: double [n] touble, double, ... 2 Computing: F, and then finfinity

2-1 Compute Graph F for imput we good - 111. u = Binary - String (from 0...0 to 1...1)
to Int (200 points) fiz Colculation. fresd (String, Nolm)

User slovies

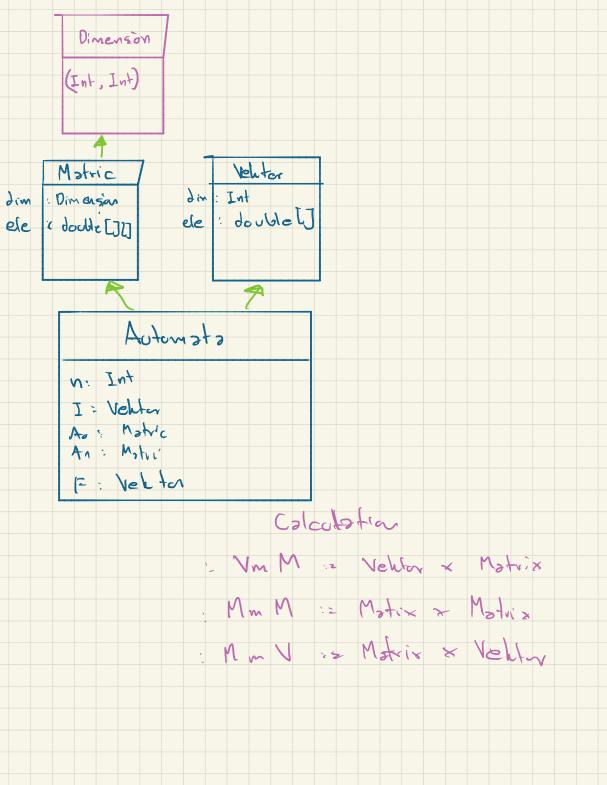
2.2 Extra Binary / String Input Input Binary - compute > String - to Binning - Compute Fingut 2 ? Compute: Findinity of Finpot? 3 Output 1. Show Graph F of Automats Show Fy For any String Input finfinity



3. compare nof AllAR

minimize (Automata)

4. if minimal - final else - (5)



Input - Schemsta 1) For Vector · 9 AHIMAZ elements exp. 1, 2, 3, 4 for Matrix 3 ÉMIM 22 elements du row 102004 g Au row exp. 1, 2, 3; 4, 5, 6; ... 3 String Imput if binary compute else - lo Binary \_\_\_\_\_