2. Program, pragramfüggvery, megoldás Delinicio (Program) Degren A ax un. alap - állapottér (fail & A). Jelilje A axon véges komponensú állapotterel unjóát, melyeknek altere cix A alap - állapottér: A = Uns B. Ax A feletti programak húv-juk ax S = A x (A v Elnis) \*\* relaciót, ha Ds = A (ax contellingers tartamany minden elemenes render atelet) 2 Va EA: V& ES(a): 121 21 es 21 = a (minden poroxat happea (egalality 1 es as elso elen a) YSERS (VIENT: IXIS) & IF fail) Coak a sonoxat utalso eleme level gail VaeRs: (121<0 > SIGIEAUE fair 3) veges sorozat esetén az utolsó elan A-beli vag fail) Delinia (Rogranliggueny). A p(S) = A x A relació ax S = A x (A U Efail 3) \*\* program programfüggverye, ha 1. Dnrs = { a ∈ A | S(a) ∈ A\* } 2. Va E Dnos): m(S)(a) = & U E A | 3 d E \$ (a): U = d, ... } Delinico (Megoldas) 12t mondjule, hogy az S program megoldja ax F leladatnit (Steljesen, helyes ax F (eladatra nexue), ha 1. DF = Pros 2 FaED : 1 (S)(a) \$ F(a) Delinicio ( grenge program filggoeny) A TO(5) E A X (A U & fails) relació az S = A X (A U & fails) \* program
gjenge programfüggvénye, ha 1. Drus = { a ∈ A | S(a) n ( A U f lau 3) + 0 } 2 vaeDras = \$ (5) (a) = {be A U E fail 3 13 de 5 (a) 1 (A U E lay (3) \* b - sign }

A grenge programfüggvenglen a hilvés vegrehajtások 1. Teladat Deggen 4=[1..5]. SEAX (A U Flails) a kovetkerő relágió Asalett:  $(1) \rightarrow (1251) \qquad (14352)$ 1-><1,3,23...> 2><2,1> 27<2,47 3 -< 33,3,...> 4><4,15,42> 4><4,3,12,5,1> 5 > < 5 2 3 4> (5 → < 5,2 fail > 5 → < 5,3 4> a Program - e Ds = {1,23 4,53 = A V munden vegrenator also eleme a hines kostes fail munder veges severatival fail vays & believes or utobo eleme Spragran by Rataroxus ing a kovetker halmoxokat!  $S(2) = \{ <2, 1 > , < 2, 4 > \}$ Dnos = 82,43 4(S)(4)= { 2,13 n(5)(3)= 83 n(S) = 8(21), (2,4), (4,2), (4,1) 3 Hatoroxxon meg 5 grenge programfüggvenget! n(5) = E(1,1),(1,2), (2,1), (2,4), (4,2), (4,1) (5,4), (5, fair) Vegoldine S on F = E(2,1), (2,4), (4,1), (4,2), (4,5) 3 ⊆ AXA Dr = 82,43 = 82,43 = Pags 1 / PPS (2) = 82,43 CE2,43 = F(2) P(S(4) = E2,13 = E12,53 = F(4) Look Smegolaja F- let

2 2022, 09, 23

2 Feladat degren H = {a & 2 1 0 } Hataroxxxx may Spragranfogginget! Vilagos hagy hilas, ha X (0 X:=X+2911(X nem lejexódis le ha X=0 VX>10 < ..., 107, he Ex elabor alaya h(5)= {(i,10) 1 i € [1,10] 3. Teladat Degen A = E1,233, Segen F = E(1,1),(1,2),(2,3)3 CAXA a, Adjunt meg eg S programat ami megalija a leladatat n(S) = {(11),(23) (1-><1> 1. Day = {1,23 = {1,23 = } 5= -2 -< 37 13753 fail7 11.11 11 (5)(1)= 81 Dyon 4/5/(7)= 53 2902 S megaldia F-let Adjunt meg A feletti programot melynes programfogguriye 11751231> T=72><23,1,3> 3 >< 3 fall > G Megoldine Toz F feladator Milianaloan Igen