HW4 Like Dercher EECS 762

4.5.1 ex. 2

801 57618 OCX37.8.18 fresh Octx3 1 201-x.x

D3 = xxx-1; 4: 4.2 51 405

Da- white x >0 do (x=x-1, 4=4.2) 02 do" Oz =×>0 x:x-1. y:= y:2 5 単 とx 1 の y か 4 多 while x>0 clo(x=x+1, y=y=2)03 \$10

03=8XHO,4H43

D: x:x-1,0, 42x+1,4+13 4:24.28x+1,4+35402 D, - EXH2, 4013 02- EXH1, 4H23

EXH241318=x>0 X:=x-1, 4:-43/16x+1/8+23 while x>0do (x:=x-1,4:4) 28x+1, y+23/1001

mile x70 do (x:=x-1, y=x3, x+x3, x+x3, y b)

25 Dr. Skip ying. 2 while a dol on the ying while ado hou 4.5.2 ex.2 D3: 4:=4.2 while a do A oz askipo" D2 - ship y=y-2 while a do on skipo DI= nuhile c do 20, to skipo: y while a do how skipo; skip 4=4.2 while a do oz to y 4.2 while ado 9 oz skip yi=y.2 while c do A or raskip or x=x-1, y=x a while x70 do 20, - skip x=y-2 while cdo 2 Extal, x +13 4: 4: 2 mile cdo 10, 1 skip fing while cdo 20 a skip while cool of toskip & while codo 103 = 7 while colo 103 skipulie colo 203 + while colo 2 03 X:5x-1, 4:4.2 while x>0 do A of a ship: 4:4.2 while x>0 do A of SICIATIONS Charle dins an a thanhinxxxx メニメート、リニリスのるいかはアルキリスのよ x:=x-1の、~oskipをxら1、xら13 XIX-103 ~ Skip ou 05 (= X %) while coloron manie coloron while x>0 do (x:=x-1, y:=y:2) {x+2, y+>13 ~ 40 Q TXYO 03-8XH1,4H23 E14121123= 20 Julile Colo 2 03 the stripe while c de skip while c do x as a ship a, 5x426x43=+23 y: 4.2 while cdo A Jz is skip or 2/ y: y. 2 while cdo I of reskipp skip y=g.2 while cdo 1 ou Twhile colors tackips skip yig. 2 while colo & on the shaper

05=0

010 while c do y as meship of skip obverskip or Os + ship or

De-skip while a do hosmatile a do hos while colo 3 os wshipo

5+46 1041x3=30

4:=4.2 while cdo I roskip while cdo I os y=+2 while cdo & ou kiship or 4:4.2 raskipos Scipulite c do 1 os maskipo

3-rule sytem

2-506

Observe: a, Raz az R*az a, Raz a, R*az = a, R*az

a, Raz a, RAQ3

1. obersee rule 1 of the two rule system is an application of 3 rule system re 3 to rule 2.

2. aRci - a Raio aio Rai

3. Assume a. Raaz azRaz

Show a, Ray

a, Ray (a, Ray) Thy IH

Therefore

a Ra

4. Since the 2 rule system is derivable from the three rule system & vice versa, the two are equivalent.