HW4 Jianzhong Chen 23478230 part 3 d b part 1 Because with bytelode, we can maintain a process past 2 5 pointer, which allows us to exit a function Call PARK 3 without losing the state of main call stack. >> 1 part 2 >> 2 the third resume will cause an error. The interpreser need to track the Part 4 number of yields or return in the coron time. a yiel after resume not will cause an error. If the number of resume refiches the number of yield in the constitute, we need to implement the coronthe as an object, so that me will know a yield is inside a coronthe or not For each corontine, we need to store part 6. DA corositive state (running, suspended, dead) 3 For each from h the allstack, we need: 1) The programm Counter 2) The bytecode into which the PC indexes 3) The environment. Ex coron tine = Coron tine (Source Co Fun)

Coron tine = Coron tine (process to Fun). frames: Whe frame for Call to source Co Fun. O print "create source consubine" Convertine 2 (units under fine) PC hetare = y:eld (1)" consumel suspended frames: 1) the frame for source to Fun 2 print "Running pacess Corontine" 2) the france for coult to process Co From. Carouthe 2. Running pc After yield[First + X1). g print Running source coractine: francs: 1) the frame for call to some ce Cofum. Corontage Running pc After pront Running souvel concather.
2) the frame for call to process to from. coron line 2. In spended of print Finish process commune pc After nell "First" + X1). frames: I the frame for Call to procession procession countre I Lead pc after pust "Finish process coranthe" Gorbutal 2 Running 5 prohit "Find" fromes: Non C Corontine (delid coronthe 2 deld.