CSc 335 - Office Hour 2,14,24

First Questim In response 20 the call $\rightarrow \begin{cases} (x, y) \end{cases}$ (+(xy)(x(xy))) (+(xy)(x(xy)))Nortwe eval (either) (golf 3) OR The squiggly Cadd 1 (add 1 3) NOT PORT of De (IND) and environment diagram The eval of cabl 3 generates Cather Thomas My feeble attempt to tellined indicate marginal retired by me colline another child frame (+ x 1) Perhaps 9C Intervenes here to remove This cast Frame. The same sequence of steps now again evals (xy), giving A - corating another frame Porhaps GC Lvins on again And finally a similar sequence evals (x A)
=== les, another child frame!

Recursive soln to the zero counting problem ZW) where we (this time) court only me zeros Questim occupring on The right side of The number. Is this a decent spec? The first Thing
to look at might be while The spec

15 complete — is the input sufficiently
softrided and is the output adequately Meripad > Input: NO not enough - we should
probably add postulthe input is a
scheme number [50 0000 is not allowed, and nailor is 500102: etc: No leading

Zeros J. In addition: it might

make sense to restrict attention to

non-regarder interni inputs. The

Idea being that regarder inputs could

be handled with a weapper. Finally, number is impossibly vague
we want integer inputs. Jutout: No we understand rights, de of a number? Better: court Orla Zeros to The right of the rightmost non-zero digit Perhaps well notice something more later -frequently happens - bit This seems to be evolugh to start. Divide & Conquer Iden? Termina "smaller problem of the same kind" Continue so long as (module n 10) This termination condition

will fail for input o So: We'd better stand with 1>

ii, n > 1 (S a scheme, n tegen (detine (rount-rightmost-zeros n (cond ((not (zero? (modulo n 10))))) Case (+ 1 (count-rightmost-zenos (quotient n 10))))