Plan:	Comps gala	
- end of term timing	tomorrow!	
-tail call optimization	3:30 pm	
-tail call optimization -memory allocation?		
WK9 if self-se	LO beyond	
Must answer yes in Moodle survey		
T		
W today part 9 deadline		
The lo-15 am index card due it		
Primitives reading days	Self Scheduling	
Sa 3:30p-6p		
Scheduled		
exam slots		
C6K#4		

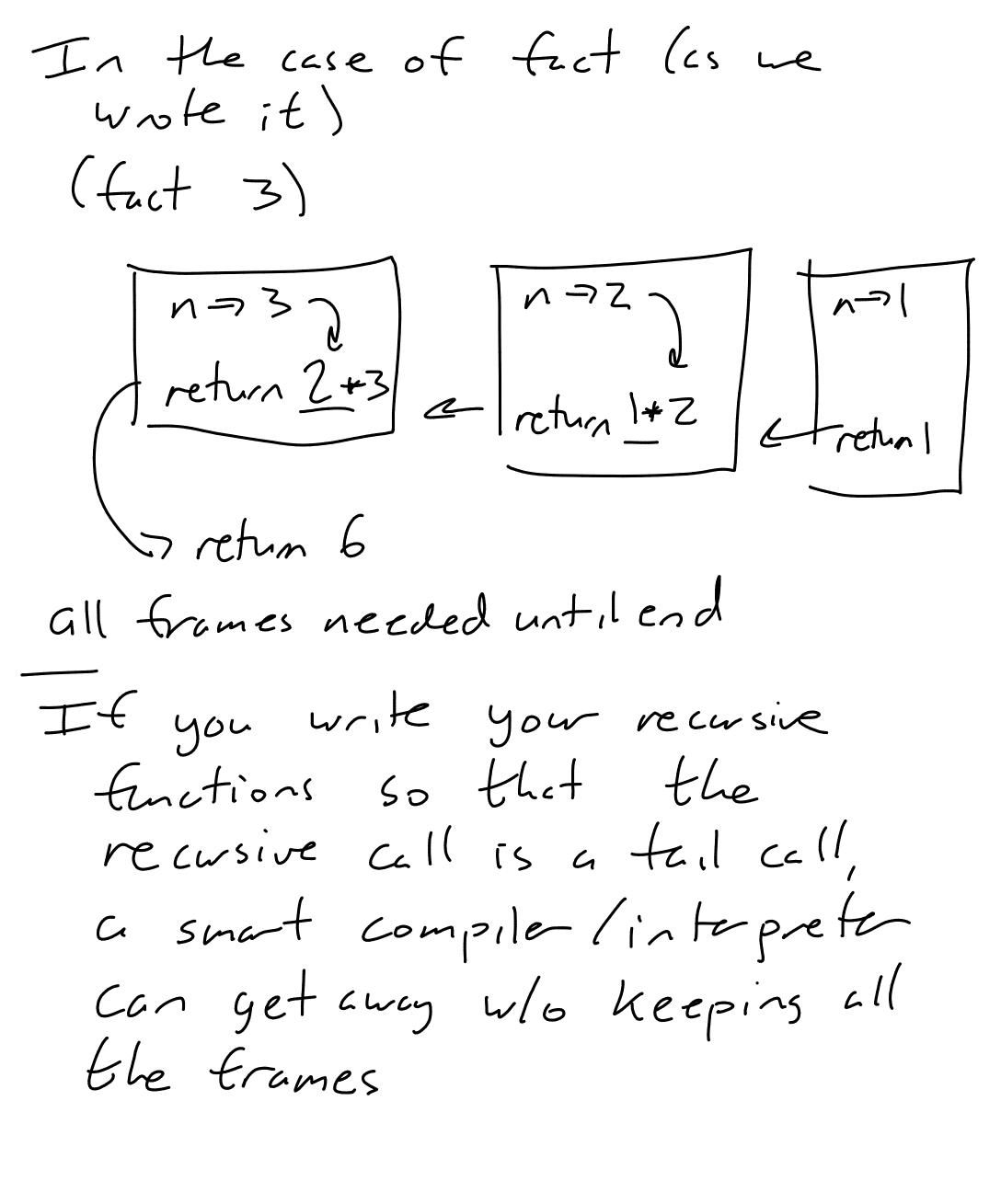
If you do Cok# t at scheduled slot
-bring index card with you

If you do it self-scheduled
-contake it Sa, Su, or Mon
-you have to turn in your
index cod to my mailbox
by Th WK 10 at 10:15 am

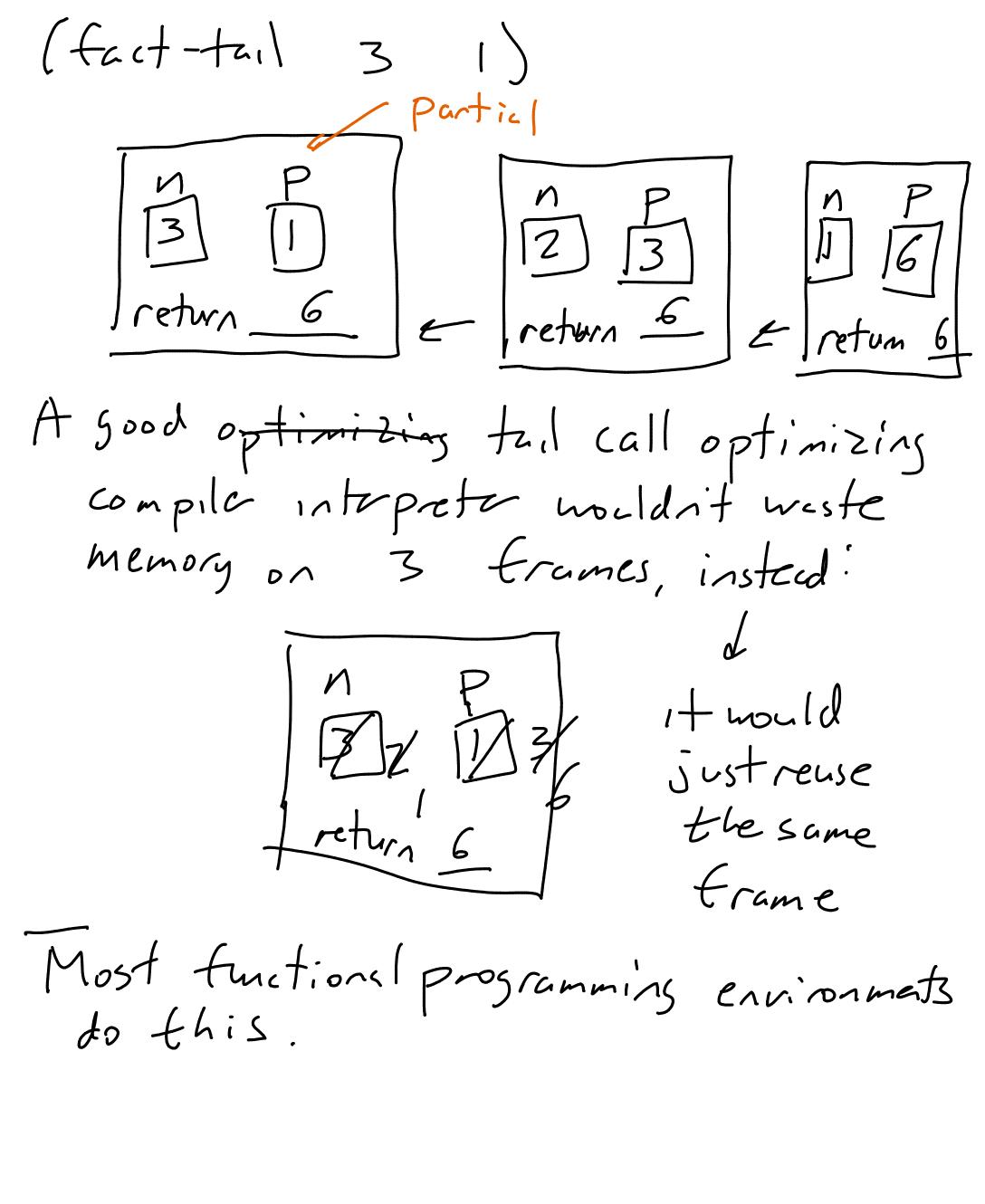
College rule:
-if you think you might take
it self-scheduled, must tell
me in advance

- even if you said you might take it self- scheduled, you can still show up at the scheduled exam time if you wish - but please respect the trees

Tail call optimization	
Memory downsides with recusion	
- every recusive call creates a new frame	
"Tail Cell" - a function call	
where it happens as the very last Step of another function return	٥
(define inc	
(define f (lambda (y)	
(inc y)) return L tail call we don't need f's trame anymore - we could delek it	
trame anymore - we could delek it	•



Tho questions: - can we rewrite factorial to Use a tail call instead? - does it matte? Does Guile optimize for tail recursion? - does python.org Python? Oracle Java? other? S contour sial



How does malloc work?
-attalmalloc, but also memory
allocation in general on the heap?
Java
String x = new String ("-")
Psthon.
$\chi = 11 - 11$ herp
Howdo we allocate memory in the heap?
P.