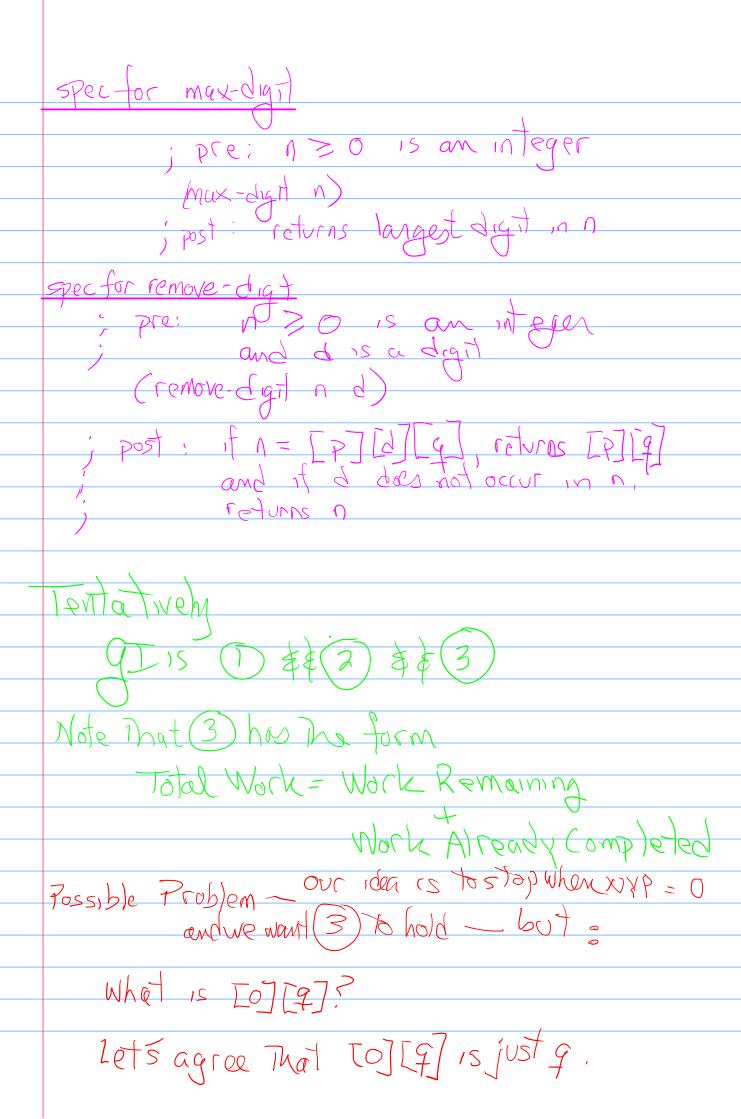
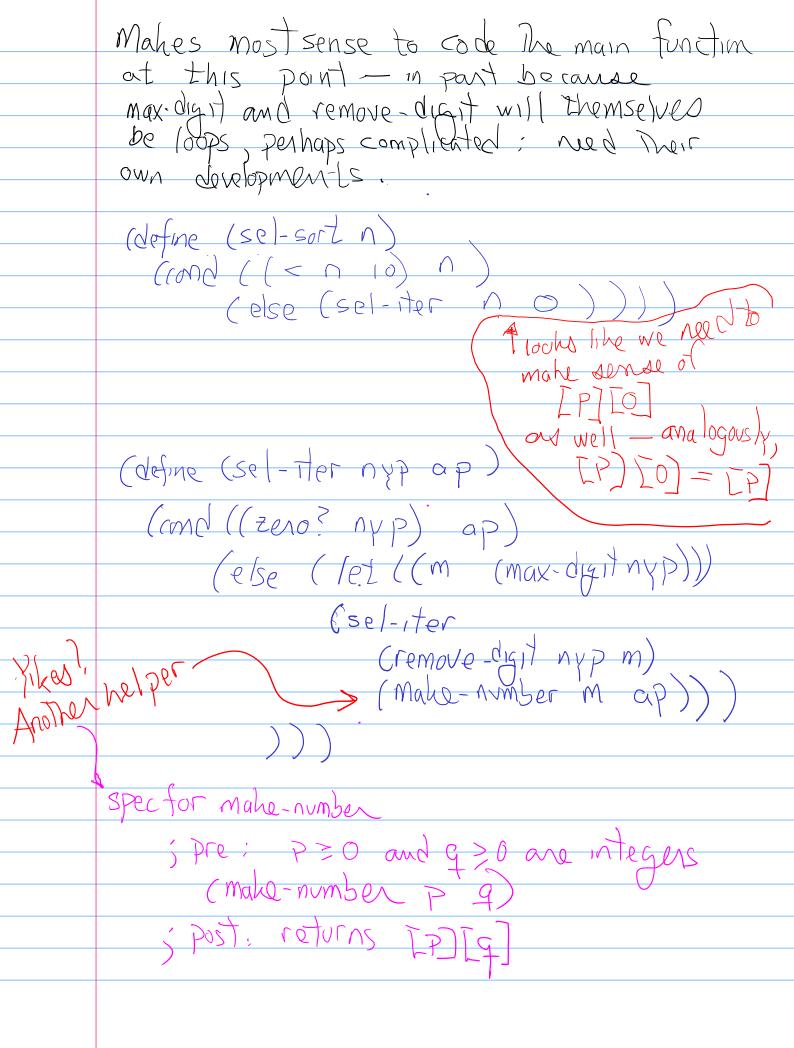
	Selection Sort for < [Iterative]
	First thoughts and functional decomposition
	•
	Apossible plan;
max-d	
(o "slide" d'to the right and
	make it part of ap
Comm	A TOTAL TOTA
RMOVE-	angit app
	· iterate with the shorter myp
	· continue until nyp = 0, at
C) and	continue until nyp = 0, at which point return ap,
C) WIN	
(Z) Q	Observe malevery digit in 17p 15 < any digit in ap
"U Tre Q	and sp is sorted
	Observe: once we give the relation between nyp ap and n as well The specs for The helper functions we have a design idea
	and n as well the specs for the helper
	functions we have a design idea
<u></u>	7. 7
(3)	sorted (N) = [sorted(nyp)] [ap]
My DE	C.T. WIFFORD C +
~ No	Notatival & for integers p & 70
ا ۱۸	lets agree that IPJ [9]
	15 Short hand for
	Abtation: Soc integers P & > 0 [ets agree That [P] [9] 15 short hand for P × 10 1345 (4) + 9 29: [12] [345] = 12345
	Q(12)[345] = 12345





	With this wrapper, do we have
	sorted (N) = [sorted(nyp)][ap]
	when sel-iter is called for the first
	Zime?
	Sino; nyp-N and
	$= \left[0 \cdot \left[(4 \times u) \cdot b \right] \cdot \left[0 \cdot \right] =$
	sorted (nyp)
	Tou can son that our
	Jou can see that our QJ-3 is weak enough.
	What about (1) and (2)?
C	bserve malevery digit in 1xp is < any digit in ap
<u>C</u>	mc 2 is sorted
	'
	Des abs 5 7 + Co chauld be
	The idea is That (i) should be vacuously true because we haven't
	10t = 1 000 DECUMBLE WE VINVEY D
	get pot any digits inap. But
	7 (5)
	SO 50 15
	not 0 ?

One work-around might be to Houston: We have a problem of receive he bracket notation.

But [1][0] is naturally 10,

Wrapper. Instead of hange his (define (sel-sort n)

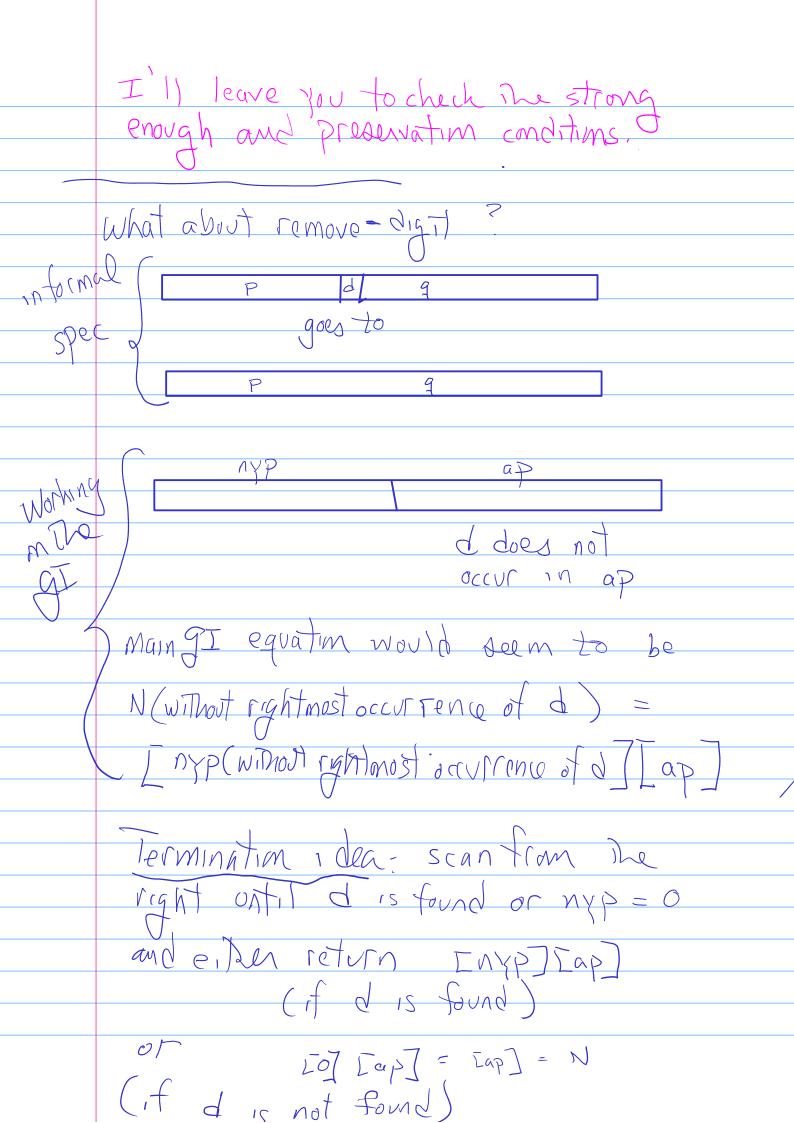
(cond ((< n 10) n)

(else (sel-iter n 0))) Penhaps (define (SP)-sort n)
(and ((< n 10) n) (else (let (d (maxegit nyp))) (sel-iter (remove-dait nyp d) Again we check 0,2, and 3 Detause sorted-N =

we moved a [sorted (nyp)] [ap]

Taget dight of n

TRUE 2) is True because ap how only me digit



[This design sortisfies a stronger
705 Man wo reed - and it
post man we need - as it quarantees mat the rightmost
occurrence of dis The one
16 MO16G
151010160
You'll want That make-number
function have an well:
(Make-number pg) = IP][q]= #digit(g) PX (O) + 9
Than what we've Jone so far toright, and as it grows late ""
Thanks for working with me!