COS126 TOY Programming Activity - Booksite 5.2-5.4

• Group A	Activity:		
– Lea	ader		
- Re	corder		
- Re	porter		
1. TOY ha	ıs	registers called R[0] th	nru
2. Which r	egister is s	special? How?	
3. TOY ha	ıs	_ memory locations, add	dressed thru
4. Which r	nemory ad	dress is special?	How?
5. TOY ha	ıs	op codes, th	ru
6. TOY ha	as one PC.	What does PC mean?	
7. TOY co binary		lly written in (choose or cimal java	ne)
8. Fill in t	he missing	Code, Pseudo-code, Ad	ldress or Comment.
Address	Code	Pseudo-code	Comment
10:	7101	R[1] < -01	R[1] holds the constant 1
11:	4222		Initialize R[2] to
12:		R[3] <- 01	
4.0	0500		D 1 M C (0.1)

10:	7101	R[1] <- 01	R[1] holds the constant 1
11:	4222		Initialize R[2] to
12:		R[3] <- 01	
13:	85FF		Read N from Stdin
14:	1423	$R[4] \leftarrow R[2] + R[3]$	We'll keep a sum in R[4]
15:	1203		Copy R[3] over to R[2]
16:			Copy R[4] over to R[3]
17:		$R[5] \leftarrow R[5] - R[1]$	Subtract 1 from N
18:	D514		N > 0? Do it again.
19:			Send the sum in R[4] to Stdout
:	0000		All done!