[6pts]

Ouestion #1: STrace each of the following code segments

Segment #1	count	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	output (if any)
multiplication - the en en en Miller than the	TV	2~	
Int count=7;	6/	1 1 m	
(Int 1) False		O	
for (1 = 2; 1<0; 1);)			
count;			
Segment #2	count	num	output (if any)
int num = 5, count = 0;	0/	51	his
for (num=5; num>0; num==2)	11	4	2.1
{ switch(num)		21	
(case 3: num++; break;	1	01/	Wio /
case 2: num = 0;) default:	21	-10	
deraure.		-30	numu=n-3
System.out.println("hi"+num);			
num; 4			
(count ++;)			
while (num>0);			
ystem.out.println("num = "+num);			
your out princing name + name,			
Segment #3	n n	A Land	output (if any)
	0	OV	د حسل
t n = 0;	2 /	-0-	Mellono /
t i = 0;	41	1/	Hellowl
ile (n<=6) 04=6	6/	2	
for (i =0; i<2; i++) °	6		11
System.out.println("Hello "+i);		-10-X N	د ص
n+=2; 0+1;	81	0 %	Hello-0
> —	10	1	Hellowl
+=2;	12/	2	
	15	OX	Hi ~ 12
om out and a land	-		111 0-12
em.out.println("Hi " + n);			
· · · · · · · · · · · · · · · · · · ·			

Short questions [4pts] 1. Consider the code with its line numbers (#). Explain briefly what happens with the for loop when the coninue statement on 4# is encountered. And state which statement is executed next. 10 int num - 0, i=0; if ine 2 the madesure skip while(i++<5) '" 1 20 the remorder and do next iteraterion if (i==2) ***** رام بدوي سكت الميدل اللي دّحت وشروح للورية المانية اولاً المتعارض السيرما continue; num ++; 50 6# num += i; And conte which elatered is executed next first 1= 2 and do post incomed then y So i is shawye to 3 and don't equal 2 so will executed **R**2. Fill line 3# to make the while loop execute...: 3 times 1 time only int x = 0; 1# int x = 0; while (x < 6) (2# 2# while (x < 6) (3# 3# x = x + 6 48 48 3. Is this loop an infinite loop? Explain precisely. int num = 9; 18 2# do (3# if (num < 9) break; 4# num ++; 5#) while (true); flucy yes because the bourne live don't change to false to Stopped 4. After this loop, 1# Scanner input = new Scanner(System.in); 2# int num; 3# while (num >= 0) { 4# num = input.nextInt(); 5# } 6# when we reach line 6# the value of num can be! (check all that apply) negative □ zero

positive