Homework

Selection – Tracing, Nested if and more practice

Trace the following programs:

Program	Memory	Output

`int num1 = 10;`
`int num2 = 15;`
 	
`if (num1 == 10) {`
`    num2 = 20;`
`} else if (num2 == 20) {`
`    num1 = 15;`
`    System.out.println("ElseIf");`
`}`
 	
`if (num2 == 20) {`
`  System.out.println("Haha");`
`} else {`
`    System.out.println("LOL");`
`}`
	num1 = 10
	num2 = ~~15~~ 20
		Haha
		>

`char ch = 'z';`
`int a = 1;`
`int b = 2;`
`if (ch > 'Z') {`
`    a = a + 1;`
`} else {`
`    a = a + 2`
`}`
`if (ch < 'Z') {`
`    b = b * 2;`
`} else if (ch == 'Z') {`
`    b = b * b;`
`}`
`System.out.print(a);`
`System.out.println(b);`
	ch = z
	a = ~~1~~ 2
	b = 1
		21
		>

`boolean check = false;`
`if (check) {`
`    System.out.println("line 1");`
`} else {`
`    System.out.println("line 2");`
`}`
`if (check != true) {`
`    System.out.println("line 3");`
`}`
	check = false	line 2
		line 3
		>