

1. Find the outputs after executing the main() method:

1	public class Variable {	25	public static void main(String[] args) {
2	public static int one = 1;	26	Variable v1 = new Variable();
3	public static int ten = 10;	27	Variable v2 = v1.operation();
4	public int two = 2;	28	v1 = v2.operation(v1);
5	public int five = 5;	29	System.out.println(v1.one+" "+v1.five);
6	public Variable () {	30	}
7	int one = ten - 3;	31	}
8	this.two = one + (this.one++) + Variable.ten;	OUTPUTS	
9	Variable.ten = 9 - (--five) + one;	18	12
10	System.out.println(two + " " + ten);	23	14
11	}	27	23
12	public static Variable operation() {	-16	-20
13	Variable object = new Variable();	4	23
14	object.ten += object.five + (one++)*3;		
15	System.out.println(ten + " " + object.two);		
16	return object;		
17	}		
18	public Variable operation(Variable var) {		
19	five = 3 - two;		
20	int five = Variable.one + this.five;		
21	System.out.println(five + " " + this.five);		
22	this.five -= five - ten;		
23	return this;		
24	}		

2. Find the outputs after executing the main() method:

1	public class Quiz {	24	public static void main(String[] args) {	
2	public static int sum = 7;	25	Quiz q1 = new Quiz(3, 2);	
3	public int y = 3;	26	q1.method();	
4	public Quiz(int x, int p){	27	}	
5	x += 6;	28	}	
6	y = x - p;			
7	sum = Quiz.sum + method(x,y);			
8	System.out.println(x + " " + p + " " + sum);	OUTPUTS		
9	}	2	21	33
10	public void method() {	9	2	9
11	int x = 0, y = 0;	27	47	96
12	y = y + this.y;	32	21	74
13	x = this.y + 2 + sum;			
14	sum = method(y, x) + this.y;			
15	System.out.println(x + " " + y + " " + sum);			
16	}			
17	public int method(int sum, int x) {			
18	y += (++sum) + 4;			
19	x = x - 5;			
20	sum = sum + x + y;			
21	System.out.println(x + " " + y + " " + sum);			
22	return x;			
23	}			

3. Illustrate the output of the following statements written in the main method of the tester class. [Answers without workings on the script will be rejected]:

1	class ABC {	1	class XYZ extends ABC {
2	public static int c = 3;	2	public static int a = 4;
3	public int a, b = 5;	3	public int b = 2, c = 7;
4		4	
5	public ABC(int a) {	5	public XYZ(int c) {
6	this.a = a + b++;	6	super(c+a);
7	this.b = 3*a - this.b;	7	this.a = super.b + this.c;
8	this.c = this.a + a;	8	super.a = 2 + this.c + c;
9	}	9	}
10	public int fun(int b) {	10	public int fun(int a) {
11	int a = this.a + c;	11	b = a - 5 + super.fun(ABC.c+c);
12	this.b = 4 + this.a;	12	a = this.c + super.c;
13	System.out.println(a+" "+b+" "+c);	13	return a+this.a+super.a;
14	return c++;	14	}
15	}	15	}
16	}	16	

1	public class QuizTest {	OUTPUTS		
2	public static void main(String[] args) {			
3	ABC a = new ABC(4);	48	52	39
4	XYZ b = new XYZ(a.a+XYZ.a);			
5	int x = a.fun(b.a);	62	47	40
6	int y = b.fun(XYZ.a);			
7	int z = XYZ.a - ABC.c;	39	122	11
8	System.out.println(x+" "+y+" "+z);			
9	}			
10	}			