

Name: _____ ID: _____ Section: _____

(There is 1 question only. You must answer the complete java code.)

Q1. Trace the following Code and Write down the generated output:

1	class Employee{
2	public static int count;
3	public int id;
4	public String grade;
5	public Employee(int id){
6	this(id, "A");
7	}
8	public Employee(int id, String grade){
9	this.id = id;
10	this.grade = grade;
11	++count;
12	}
13	public static void showInfo(Employee e){
14	count--;
15	System.out.println(e.id+" "+e.count+" "+e.grade);
16	}
17	public void promote(){
18	grade += "+";
19	id = count + 7;
20	System.out.println(id+" "+count+" "+grade);
21	}
22	public void demote(){
23	grade += "-";
24	count = id + 9;
25	showInfo(this);
26	}
27	}

<TESTER CODE ON NEXT PAGE>

1	public class Tracing{	OUTPUT		
2	public static void main(String[] args) {			
3	Employee a = new Employee(23);			
4	Employee b = new Employee(21, "B");			
5	a.promote();			
6	b.demote();			
7	Employee.showInfo(a);			
8	}			
9	}			

Q2: Suppose there are 5 objects of a class. How many copies of static variables exist?

Ans:

Q3. Can a default access method be called from another class?

Ans:

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15	System.out.println(e.id+" "+e.count+" "+e.grade);
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17	public void promote(){
18	grade += "+";
19	id = count + 7;
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22	public void demote(){
23	grade += "-";
24	count = id + 9;
25	showInfo(this);
26	}
27	}

<TESTER CODE ON NEXT PAGE>

1	public class Tracing{	OUTPUT		
2	public static void main(String[] args) {			
3	Employee a = new Employee(15);			
4	Employee b = new Employee(12, "B");			
5	a.promote();			
6	b.demote();			
7	Employee.showInfo(a);			
8	}			
9	}			

Q2: Suppose there are 3 objects of a class. How many copies of static variables exist?

Ans:

Q3. How do we access / use private methods?

Ans: