

Packages Have Arrived

In the following classes, cross out the lines that will result in an error (either during compilation or execution). Next to each crossed-out line write a replacement for the line that correctly carries out the evident intent of the erroneous line.

Each replacement must be a single statement. Change as few lines as possible.

After your corrections, what is printed from running **java P2.C5?**

1	package P1;	Write output here:
2	class C1 {	
3	private int a = 1;	-----
4	protected int b = 2;	
5	int c = 3;	-----
6		
7	public static int d() {	-----
8	return 13;	
9	}	
10	public void setA(int v) { a = v; }	
11	public void setB(int v) { b = v; }	
12	public void setC(int v) { c = v; }	
13	public int getA() { return a; }	
14	public int getB() { return b; }	
15	public int getC() { return c; }	
16		
17	public String toString() {	
18	return a + " " + getB() + " " + getC() + " " + d();	
19	}	
20	}	
21	-----	
22		
23	package P1;	
24	class C2 extends C1 {	
25	public C2() {}	
26	public C2(int a, int b, int c) {	
27	this .a = a;	
28	this .b = b;	
29	this .c = c;	
30	}	
31	public static int d() {	
32	return 14;	
33	}	
34	public C1 gen() {	
35	return new C3();	
36	}	
37	}	
38	-----	

```

39
40 package P1;
41 class C3 extends C2 {
42     private int a = 15;
43     public String toString() {
44         return a + " " + getB() + " " + getC() + " " + d();
45     }
46 }
47 -----
48
49 package P2;
50 class C4 extends C2 {
51     public int getB() {
52         return 2 * b;
53     }
54     public C4(int a, int b, int c) {
55         this.a = a;
56         this.b = b;
57         this.c = c;
58     }
59     public C4(int v) {
60         this.a = this.b = this.c = v;
61     }
62 }
63 -----
64
65 package P2;
66 class C5 {
67     public static void main(String... args) {
68         C1 x = new C1();
69         C2 y = new C4(20, 30, 40);
70         C3 z = y.gen();
71
72         System.out.println(x);
73         System.out.println((P1.C2) y);
74         System.out.println(z);
75     }
76 }

```