

Tutorial Quiz #6 — Solutions

Consider the following Java code (set in two columns to save space).

```

class A {
    static int val = 3;
    int mine = 4;
    static void doIt() { val++; }
}

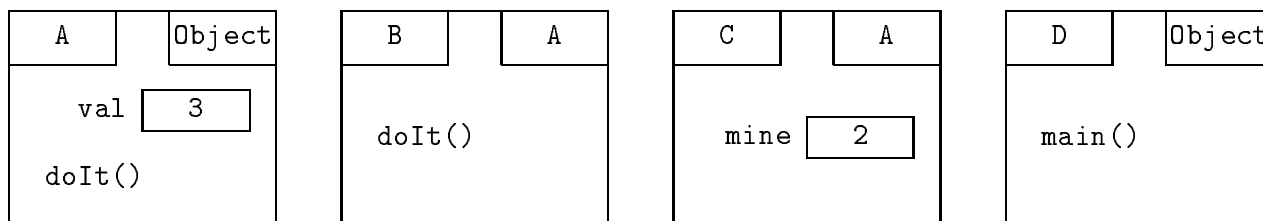
class B extends A {
    static void doIt() { val--; }
    void take() { mine = val; }
}

class C extends A {
    static int mine = 2;
    int val = 5;
}

public class D {
    public static void main() {
        B b = new B();
        C c = new C();
    }
}
    
```

Below, draw the *Static Space* for the code above.

Answer:



Marking Scheme:

- A. 1 mark for having one box for each class, with the name of the class in the upper left-hand corner
- B. 1 mark for having the correct name of the parent class in the upper right-hand corner of each box
- C. 1 mark for having the correct static method names in each relevant box
- D. 1 mark for having the correct static variable names and values in each relevant box
- E. 1 mark for *not* having any extra incorrect information in each box