

Solutions

Each answer shows the steps, then the **result**.

2.1

```
public String getName()
{
    return name;
}
```

- `public String` header with no parameters
- returns `name`

2.2

- for `x` equal to 0 neither `return` runs
- a non-void method must return a value on every path

2.3

- `Li (70)`
- then `Li (75)`

3.1 B

- returns a `boolean`, needs no parameter

3.2 A

- `7 > 5`: the first `return` ends the method

3.3 C

- `int score` declares a new local variable; the field is not changed

3.4

(a)

```
public void addMinutes(int m)
{
    seconds += m * 60;
}
```

- `void` header with an `int` parameter
- adds `m * 60`

(b)

```
public boolean isLong()
{
    return seconds > 3600;
}
```

- `boolean` return type
- `seconds > 3600`

(c)

```
public String toString()
{
    int m = seconds / 60;
    int s = seconds % 60;
    if (s < 10) return m + ":0" + s;
    return m + ":" + s;
}
```

- header `public String toString()`
- minutes by `/ 60`
- seconds by `% 60`
- adds a leading 0 below 10 seconds