

1
point

1. Before you start writing your own Java programs, it is important you fully understand what your Java code will do. Try solving the following problems in this quiz by hand.

Consider the following Java methods.

```
1 int f(int x) {
2     return x*2 - 1;
3 }
4
5 int h() {
6     int a = 3;
7     int b = f(a) + f(4);
8     return b;
9 }
```

What is the return value of the call h()?

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2. Consider the following method g.

```
1 int g (int a) {
2     if (a < 9) {
3         return 9;
4     }
5
6     if (a < 7) {
7         return 7;
8     }
9
10    if (a < 4) {
11        return 4;
12    }
13
14    return 0;
15 }
```

What is the value returned from the call g(5)?

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3. Consider the following method k.

```
1 int k (int a, int b) {
2     if (a < b) {
3         if (b > 4) {
4             return 0 ;
5         }
6         else {
7             return 1;
8         }
9     }
10    else {
11        if (a > 4) {
12            return 2;
13        }
14        else {
15            return 3;
16        }
17    }
18 }
19
20
```

For which of the values a and b would 2 be the return value?

- ☐ a=6, b=8
- ☐ a=1, b=3
- ☐ a=6, b=6
- ☒ a=2, b=0

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