1

What is the result type of getRoom(4).getGuest();

```
public class Guest {
    private String name;
    public String getName() { return name;}
}

public class Room {
    private int number;
    public Guest getGuest() { return guest;}
}

public class Hotel {
    public Room getRoom(int number) { // body of getRoom}
}
```

```
a. Stringb. Guestc. Roomd. int
```

2

What is a good specification for the constructor?

```
public class Point {
    private int x;
    private int y;

public Point(int n, int m) {
        x = n;
        y = m;
    }
    public int getX() { return x; }
    public int getY() { return y; }
}
```

```
    a. requires x == 0 && y == 0;
    b. requires x < n && y < m;</li>
    c. ensures x == n && y == m;
    d. ensures x < n && y < m;</li>
```

3

What is the return value of foo?

```
public int foo(int n) {
  int x = 568;
  x = (x++) + n;
  return x;
}
```

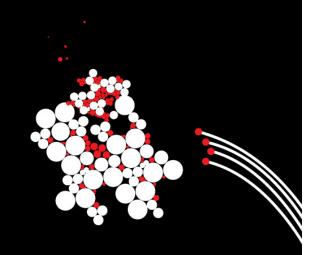
a. 568

c. 568 + n

b. 569 + n

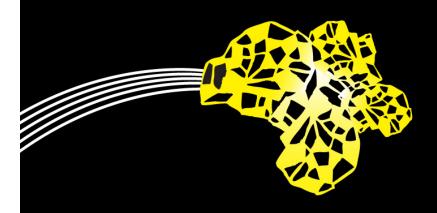
d. n

UNIVERSITY OF TWENTE.



LAST MAN STANDING

DIAGNOSTIC TEST 1







RULES OF THE GAME

- You have received an email with a link to the diagnostic test site
- Initially everybody is standing
- Answer the question within 45 seconds by selecting an answer option on your screen
- If you answer the question correctly, you remain standing
- If you answer wrong, you sit down, but you keep on answering questions
- If there is only 1 person standing, we have a winner
- If we have a winner, or if all participants answered wrong, we start with the complete group again.
- There are prizes for the winners, and for the best overall scores