

3 Hash Codes

3.1 Which of the following hashCodes are valid?

```
class Point {  
    private int x;  
    private int y;  
    private static count = 0;  
    public Point(int x, int y) {  
        this.x = x;  
        this.y = y;  
        count += 1;  
    }  
}
```

(a) `public void hashCode() {
 System.out.print(this.x + this.y);
}`

(b) `public int hashCode() {
 Random random = new Random();
 return random.nextInt();
}`

(c) `public int hashCode() {
 return this.x + this.y;
}`

(d) `public int hashCode() {
 return count;
}`

(e) `public int hashCode() {
 return 4;
}`