

```
public Rectangle(int x1, int y1, int x2, int y2) {  
    this.x1 = x1;  
    this.y1 = y1;  
    this.x2 = x2;  
    this.y2 = y2;  
}
```

```
public int width() {  
    return this.x2 - this.x1;  
}
```

```
public int height() {  
    return this.y2 - this.y1;  
}
```

```
public double area() {  
    return this.width() * this.height();  
}
```