



# Testing Plan

## World Class

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### getNeighbors()

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**Given a space, test to see if the correct neighbor space is returned**

#### Input

```
Space lancasterRoom = new Space("LancasterRoom", 0, 0, new int[]{0, 0}, new
int[]{1, 1});
Space lilacRoom = new Space("LilacRoom", 1, 1, new int[]{1, 1}, new int[]{2,
2});
World world = new World(3, 3, "TestWorld", List.of(lancasterRoom, lilacRoom));

world.getNeighbors(lancasterRoom);
```

#### Expected Values

```
[
  {
    name: "LilacRoom",
    row: 1,
    col: 1,
    topLeft: (1, 1),
    bottomRight: (2, 2),
    props: [...],
    neighbors: [...]
  }
]
```

## getSpaceInfo()

---

Getting the details of a space

Input

```
Space trophyRoom = new Space("TrophyRoom", 0, 0, new int[]{0, 0}, new int[]{1, 1});

world.getSpaceInfo(trophyRoom);
```

Expected Result

```
[
  {
    name: 'TrophyRoom',
    row: 0,
    col: 0,
    topLeft: (0, 0),
    bottomRightL (1, 1),
    props: [...],
    neighbors: [...]
  }
]
```

## moveTarget()

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Whether the target character moved correctly to the next space

Input

```

Space hedgeMaze = new Space("HedgeMaze", 0, 0, new int[]{0, 0}, new int[]{1, 1});
Space greenHouse = new Space("GreenHouse", 1, 1, new int[]{1, 1}, new int[]{2, 2});
World world = new World(3, 3, "TestWorld", List.of(hedgeMaze, greenHouse));
DoctorLucky target = new DoctorLucky("DoctorLucky", 100, hedgeMaze);

world.moveTarget();
target.getSpaceInfo();

```

## Expected Result

```

[
  {
    name: 'GreenHouse',
    row: 1,
    col: 1,
    topLeft: (1, 1),
    bottomRightL (2, 2),
    props: [...],
    neighbors: [...]
  }
]

```

## Space Class

### getProps()

Get all the props in the space and make sure the props are returned correctly

### Input

```
Prop attackCard = new AttackCard(50);
Prop defenseCard = new DefenseCard(30);
Space kitchen = new Space("Kitchen", 0, 0, new int[]{0, 0}, new int[]{1, 1},
List.of(attackCard, defenseCard));

kitchen.getProps();
```

## Expected Result

2

```
[
  {
    name: "AttackCard",
    arrackValue: 20,
  },
  {
    name: "DefenseCard",
    defenseValue: 30,
  }
]
```

## getNeighbors()

Test that the neighbors of the space are returned correctly

### Input

```
Space diningHall = new Space("DiningHall", 0, 0, new int[]{0, 0}, new int[]{1, 1});
Space billiardRoom = new Space("BillardRoom", 1, 1, new int[]{1, 1}, new int[]{2, 2});
space1.addNeighbor(space2);

space1.getNeighbors();
```

## Expected Result

```
[
  {
    name: "BillardRoom",
    row: 1,
    col: 1,
    topLeft: (1, 1),
    bottomRight: (2, 2),
    props: [...],
    neighbors: [...]
  }
]
```

## addNeighbor()

---

**Adding a neighbor to the current space**

### Input

```
Space drawingRoom = new Space("DrawingRoom", 0, 0, new int[]{0, 0}, new int[]{1, 1});
Space foyer = new Space("Forer", 1, 1, new int[]{1, 1}, new int[]{2, 2});
drawingRoom.addNeighbor(foyer);

drawingRoom.getNeighbors();
```

### Expected Result

```
[
  {
    name: "Forer",
    row: 1,
    col: 1,
    topLeft: (1, 1),
    bottomRight: (2, 2),
    props: [...],
    neighbors: [...]
  }
]
```

## DoctorLucky Class

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### move()

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### Test DoctorLucky's movement between spaces

### Input

```
Space lancasterRoom = new Space("LancasterRoom", 0, 0, new int[] {0, 0}, new
int[] {1, 1});
Space lilacRoom = new Space("LilacRoom", 1, 1, new int[] {1, 1}, new int[] {2,
2});
DoctorLucky target = new DoctorLucky("DoctorLucky", 100, lancasterRoom);
target.move(lilacRoom);

target.getCurrSpace();
```

### Expected Result

```
{
  name: "LilacRoom",
  row: 1,
  col: 1,
  topLeft: (1, 1),
  bottomRight: (2, 2),
  props: [...],
  neighbors: [...]
}
```

## getHealth()

---

Get DoctorLucky's current life value

### Input

```
Space parlor = new Space("Parlor", 0, 0, new int[]{0, 0}, new int[]{1, 1});
DoctorLucky doctorLucky = new DoctorLucky("DoctorLucky", 100, parlor);

target.getHealth();
```

## Expected Result

100

## getCurrSpace()

---

Get DoctorLucky's current space

### Input

```
Space library = new Space("Library", 0, 0, new int[]{0, 0}, new int[]{1, 1});
DoctorLucky doctorLucky = new DoctorLucky("DoctorLucky", 100, library);

target.getCurrSpace();
```



## Expected Result

```
{
  name: "Library",
  row: 0,
  col: 0,
  topLeft: (0, 0),
  bottomRight: (1, 1),
  props: [...],
  neighbors: [...]}
}
```

## Prop Class

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### getName()

---

Get current prop name

### Input

```
Prop attackCard = new Prop("AttackCard", 20);

attackCard.getName();
```

## Expected Result

```
AttackCard
```

### getDamage()

---

Get current prop damage value

### Input

```
Prop attackCard = new Prop("AttackCard", 20);

attackCard.getDamage();
```

## Expected Result

20

## AttackCard - applyEffect()

---

**Given a space, test to see if the correct neighbor space is returned**

### Input

```
Space library = new Space("Library", 0, 0, new int[]{0, 0}, new int[]{1, 1});
DoctorLucky doctorLucky = new DoctorLucky("DoctorLucky", 100, library);
AttackCard attackCard = new AttackCard(20);

attackCard.applyEffect(player);
doctorLuck.getHealth();
```

## Expected Result

80

## DefenseCard - applyEffect()

---

**Given a space, test to see if the correct neighbor space is returned**

### Input

```
Space library = new Space("Library", 0, 0, new int[]{0, 0}, new int[]{1, 1});
DoctorLucky doctorLucky = new DoctorLucky("DoctorLucky", 20, library);
DefenseCard defenseCard = new DefenseCard(20);

defenseCard.applyEffect(player);
doctorLuck.getHealth();
```

## Expected Result

40

## MoveCard - applyEffect()

---

**Given a space, test to see if the correct neighbor space is returned**

### Input

```
Space lilacRoom = new Space("LilacRoom", 0, 0, new int[]{0, 0}, new int[]{1, 1});
Space masterSuite = new Space("MasterSuite", 1, 1, new int[]{1, 1}, new int[]{2, 2});
DoctorLucky doctorLuck = new DoctorLucky("DoctorLucky", 100, lilacRoom);

MoveCard moveCard = new MoveCard(1);
moveCard.applyEffect(doctorLuck, masterSuite);
doctorLuck.getCurrSpace();
```

## Expected Result

masterSuite

```
{
  name: "MasterSuite",
  row: 1,
  col: 1,
  topLeft: (1, 1),
  bottom: (2, 2),
  props: [...],
  neighbors: [...]
}
```

## LuckyCard - applyEffect()

---

Given a space, test to see if the correct neighbor space is returned

### Input

```
Space lilacRoom = new Space("LilacRoom", 0, 0, new int[]{0, 0}, new int[]{1, 1});
DoctorLucky doctorLuck = new DoctorLucky("DoctorLucky", 100, lilacRoom);

if (doctorLuck.isUsed) {
  luckyCard.applyEffect(doctorLuck);
  System.out.println("Success");
}
```

### Expected Result

Success