

Test Cases

Task #4: 1- Test findAllPaths() with sample chessboard 1

0/20 

Input

```
4
1
```

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:24)
```

Expected Output

```
Path 0: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (3, 3)
Path 1: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (3, 2), (3, 3)
```

Task #4: 2- Test findAllPaths() with sample chessboard 2

0/16 

Input

4
2

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:36)
```

Expected Output

```
Path 0: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2)
Path 1: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2)
```

Input

4
3

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:48)
```

Expected Output

```
Path 0: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (
Path 1: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (
Path 2: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (
Path 3: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (
Path 4: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (
Path 5: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (
Path 6: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (
Path 7: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (
```

Task #4: 3- Test findAllPaths() with sample chessboard 3

0/16 

Input

4
3

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:48)
```

Expected Output

```
, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9), (5, 9), (6, 9), (6, 10), (6, 11), (6, 12), (6, 13), (6, 14)
```

Task #4: 4- Test findAllPaths() with sample chessboard 4

0/16 

Input

4
4

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:60)
```

Expected Output

```
Path 0: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 2), (2, 1), (3, 1), (3, 2), (3, 3)
Path 1: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 2), (3, 2), (3, 3)
Path 2: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (3, 3)
Path 3: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (3, 2), (3, 3)
Path 4: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (3, 3)
Path 5: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (3, 2), (3, 3)
Path 6: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (2, 3), (3, 3)
Path 7: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (3, 3)
Path 8: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (3, 2), (3, 3)
Path 9: (0, 0), (1, 0), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (1, 2), (1, 3), (2, 3), (3, 3)
Path 10: (0, 0), (1, 0), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (3, 3)
Path 11: (0, 0), (1, 0), (1, 1), (2, 1), (3, 1), (3, 2), (3, 3)
```

4
5

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:72)
```

Expected Output

```
Path 0: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 1: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 2: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 3: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 4: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 5: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 6: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 7: (0, 0), (0, 1), (1, 1), (1, 2), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 8: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 9: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 10: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 11: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 12: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 13: (0, 0), (0, 1), (1, 1), (2, 1), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 14: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 15: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 16: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
Path 17: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 18: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
Path 19: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (4, 8)
Path 20: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (4, 8)
Path 21: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (4, 8)
Path 22: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
Path 23: (0, 0), (0, 1), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
```

4
5

Output [View Diff](#)

```
Exception in thread "main" java.lang.NullPointerException
    at ChessboardProjectTestPart2.main(ChessboardProjectTestPart2.java:72)
```

Expected Output

```
, (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
, (1, 1), (1, 2), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
, (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
, (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (2, 2), (3, 2), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
), (1, 1), (2, 1), (2, 2), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (3, 2), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (1, 6), (1, 7), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (1, 7), (1, 8), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (3, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (2, 7), (2, 8), (3, 8), (4, 8), (4, 9)
), (1, 1), (2, 1), (3, 1), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (4, 7), (4, 8), (4, 9)
```

Expected Output

```
Path 0: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (2, 6)
Path 1: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (2, 5), (2, 6)
Path 2: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 3: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (1, 4), (2, 4), (2, 5), (2, 6)
Path 4: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (1, 4), (1, 5), (1, 6), (2, 6)
Path 5: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (1, 4), (1, 5), (2, 5), (2, 6)
Path 6: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 7: (0, 0), (1, 0), (1, 1), (1, 2), (1, 3), (2, 3), (2, 4), (2, 5), (2, 6)
Path 8: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (1, 3), (1, 4), (1, 5), (1, 6), (2, 6)
Path 9: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (1, 3), (1, 4), (1, 5), (2, 5), (2, 6)
Path 10: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (1, 3), (1, 4), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 11: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (1, 3), (1, 4), (2, 4), (2, 5), (2, 6)
Path 12: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (1, 4), (1, 5), (1, 6), (2, 6)
Path 13: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (1, 4), (1, 5), (2, 5), (2, 6)
Path 14: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 15: (0, 0), (1, 0), (1, 1), (1, 2), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6)
Path 16: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6), (2, 6)
Path 17: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (1, 4), (1, 5), (2, 5), (2, 6)
Path 18: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (1, 4), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 19: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (1, 4), (2, 4), (2, 5), (2, 6)
Path 20: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (2, 3), (2, 4), (1, 4), (1, 5), (1, 6), (2, 6)
Path 21: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (2, 3), (2, 4), (1, 4), (1, 5), (2, 5), (2, 6)
Path 22: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (2, 3), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 23: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (1, 2), (1, 3), (2, 3), (2, 4), (2, 5), (2, 6)
Path 24: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (1, 3), (1, 4), (1, 5), (1, 6), (2, 6)
Path 25: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (1, 3), (1, 4), (1, 5), (2, 5), (2, 6)
Path 26: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (1, 3), (1, 4), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 27: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (1, 3), (1, 4), (2, 4), (2, 5), (2, 6)
Path 28: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (1, 4), (1, 5), (1, 6), (2, 6)
Path 29: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (1, 4), (1, 5), (2, 5), (2, 6)
Path 30: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (1, 5), (1, 6), (2, 6)
Path 31: (0, 0), (1, 0), (1, 1), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6)
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