

# My Solution on Section1 - Cleaning PunchCards

This is my Solution of “Section1 - Cleaning PunchCards” from the [Computer Science Course CS106A](#) of Prof. Mehran Sahami at the [STANFORD University](#).

## Section1.java

```

/*
 * File: Section1.java
 *
 * -----
 * Karel checks a punch card for half punched holes and cleans
 * those up. holes where the middle thingy is still existend
 * are considered as valid.
 */
import stanford.karel.*;

public class Section1 extends SuperKarel {
    /**
     * Specifies the program entry point.
     */
    public void run() {
        while( frontIsClear() ) {
            move();
            checkAndCleanHole();
            move();
        }
    }

    private void checkAndCleanHole() {
        /* This Method checks the current hole Karel is standing in and
         * cleans it up completely IF required.
         *
         * pre-condition: karel sitting in the middle of a hole (on
Y=3),
         *                 facing EAST
         *
         * post-condition: karel sitting in the middle of a hole
(on Y=3),
         *                 facing EAST
        */
        if( noBeepersPresent() ) {
            cleanLeft();
            cleanRight();
        }
    }

    private void cleanLeft() {

```

```
/* This Method cleans the LEFT side of a Hole
 *
 * pre-condition: karel sitting in the middle of a hole (on
Y=3),
 *
 * post-condition: karel sitting in the middle of a hole
(on Y=3),
 *
 */
turnLeft();
move();
pickAllBeepers();
turnAround();
move();
turnLeft();
}

private void cleanRight() {
/* This Method cleans the RIGHT side of a Hole
 *
 * pre-condition: karel sitting in the middle of a hole (on
Y=3),
 *
 * post-condition: karel sitting in the middle of a hole
(on Y=3),
 *
 */
turnRight();
move();
pickAllBeepers();
turnAround();
move();
turnRight();
}

private void pickAllBeepers() {
/* This Method picks up ALL Beepers at Karel's actual position
 */
while( beepersPresent() ){
    pickBeeper();
}
}
```

[java, karel, stanford, university, cs106, computer, science, learning, programming](#)

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