```java
package edu.ics211.h09;

import java.io.FileInputStream;

/**
 * Represents a SudokuReader.
 * Reads sudoku puzzles from text files into 2D java int arrays.
 * @author Billy Troy Wooton
 *
 */
public class SudokuReader {

 /**
  * Takes in the name of a text file containing a sudoku puzzle, of arbitrary dimension.
  * Reads the contents of the file and returns the puzzle as a 2D array.
  * Works with any sudoku puzzle, of n x n dimension.
  * @param filename The name of the file containing the puzzle to be read.
  * @param dimension The dimension of the width/height of the sudoku puzzle being read.
  * @return A 2D array of int containing the sudoku puzzle.
  */
 public static int[][] readSudoku(String filename, int dimension) {
  try {
    Scanner scan = new Scanner(new FileInputStream(filename));

    int[][] sudoku = new int[dimension][];

    for (int i = 0; i < sudoku.length; i++) {
      sudoku[i] = new int[dimension];
    }

    int row = 0;
    int col = 0;

    while (scan.hasNext()) {
      String nextLine = scan.nextLine();
      String[] tokens = nextLine.split("\\s+");

      for (String token : tokens) {
        if (token.equals("*")) {
          sudoku[row][col] = -1;
        } else if (Character.isDigit(token.charAt(0))) {
          try {
            sudoku[row][col] = Integer.parseInt(token) - 1;
          } catch (NumberFormatException e) {
            e.printStackTrace();
          }
        }

        col += 1;

        if (col == dimension) {
          row += 1;
          col = 0;
        }
      }

    }
    scan.close();
    return sudoku;
```

```
62    } catch (IOException e) {
63      e.printStackTrace();
64      return null;
65    }
66  }
67
68}
69
```