Data Structure

General description

Problems and solutions are stored separately. Problems, which are "blueprints" for games to be played. Every time a player tries to solve a game, a new Attempt is created in which the numbers that the player inserted are saved.

Problem

The empty map is saved in a double-layered String array. Possible values are:

#	Not part of the map	
*	A blocked field, in which no number can be entered	
?	An empty field in which the player can enter a number	
[0-9]*	The value of the field	

Problems can be saved and loaded from a text file. In this case, the first line contains four fields describing the Hidato:

Q/T/H	C / CA	[0-9]*	[0-9]*
The type of the fields Q = Squares T = Triangles H = Hexagons	The adjacency type C = faces only CA = faces & edges	The number of rows	The number of columns

The rest of the file is the map that can be played. The contents of the fields are separated by commas. An example:

The name of the player who created the problem is saved as String. All Problems currently existing in the game are saved in ProblemCollection.