# PART 2: PROBLEM CASE GENERAL DESCRIPTION

Consider the following change to the problem described in part 1 of the project: Initially, and also after executing a move, the system to develop can determine its current position on the array of squares and look at what color it is but it can not see the color of the squares beyond that point. The length of the array is known from the very beginning and the goal of the problem remains the same.

You are required to extend the system you have developed for part 1 in such a way that it can handle the new environment setting. There will be one unique submission for this part of the project that includes programming and answering the questions below.

Questions to be answered throughout part 2 of the project:

1. Explain how the problem environment properties have changed in this new setting with respect to part 1 of the project.
2. Explain whether the problem can still be solved by search. If so, explain what kind of search method is applicable and what kind of solution it would find. Exemplify your previous explanation by drawing the first two levels of the generated search tree.

**NOTES:**

* Your algorithm should work as regular Hill-Climbing when the problem environment is fully observable and in an ON-LINE fashion when the problem environment is partially observable. Your algorithm also differs from regular Hill-Climbing in that it will keep the name of each operator applied so that on completing its search, the system can produce the sequence of actions leading to the last state reached by the algorithm. Intelligent Systems Course 2013/14
* Explain whether your system provides a satisfactory solution to the new problem setting you are facing in this second part of the project.
* As part of your system testing you must display the heuristic value of the current state and the heuristic value of its best successor. This will help you understand the behavior of the algorithm and assess its adequacy as a solving method for the new problem setting.