The initial search client benchmark:

Level	Client	Time	Memory used	<b>Solution length</b>	<b>Nodes explored</b>
SAD1	BFS	0.07 s	11.52 MB	19	78
SAD1	DFS	0.05 s	8.96 MB	27	44
SAD2	BFS	-	-	-	-
SAD2	DFS	4.57 s	509.2 MB	5781	6799
custom	BFS	-	-	-	-
custom	DFS	0.06  s	11.52 MB	45	60

**SAD2 with BFS** It can seem like there are many more solutions, because the SAD2 level has 4 A's, and not just one. The BFS therefore have many more possible states to explore, which results in no solution to be found in the limited time or with the limited memory. This search was done with 8GB of RAM allocated for the SearchClient.

**DFS search strategy** The DFS client is implemented using a java.Util.Stack as the frontier.

## **Custom level**

The custom designed level is a derivation of SAD2, where some of the possible spaces are filled to limit the possible movements. The possible A's are also moved a little bit.

