


Algorithmics	Student information	Date	Number of session
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## Activity 1. The numerical square with branch and bound

The heuristic value I used is to count the number of “?” in the current node. The one that reaches 0 is the solution.

I implemented the algorithm using branch and bound and I get the following solutions.

<b>Test case</b>	<b>Time for first solution</b>	<b>Number of Nodes (backtracking)</b>	<b>Time for first solution (BaB)</b>	<b>Number of Nodes (BaB)</b>
Test00	LoR	76	LoR	?
Test01	LoR	126492	3924	?
Test02	LoR	2260	82	?
Test03	618	12852796	Oot	?
Test04	7257	165061612	Oot	?
Test05	665	9316354	Oot	?
Test06	125	1355022	Oot	?
Test07	17278	295712948	Oot	?