Activity 1. Times for the backtracking solution

Number of nodes	Time (milliseconds)
20	0
25	2
30	1
35	160
40	789
45	OoT
50	

The time complexity of the algorithm is $O(n^n)$ where n is the number of nodes. The number of different possibilities at each step is the number of nodes and the number of steps is also the number of nodes.