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Question 1

Part b) Suppose now that transitions have differing costs. In particular, the cost of a transition is equal to the number of the piece that is moved (e.g., moving the “4” costs 4). If we employ the Manhattan distance heuristic for the original unit cost version of the eight-puzzle presented in class (Lecture 4, slide 11, ℎ2), would this heuristic still be an admissible heuristic for A\* search in the new variant? Justify your answer.

1. Part c) Design an admissible heuristic that dominates the heuristic from part b, under the same transition cost scheme as part b.