

# CS480

## Pukoban Assignemt

How to execute the code:

- `python3 Driver//PukobanAiGame.py ....\statefile\board.txt`
- Board.txt can always have 1 board from level.txt under boards folder.

In this code, the heuristic function `Heuristic` calculates the Manhattan distance between each box and its nearest target and then sums these distances for all boxes. The A\* search algorithm uses this heuristic to guide the search while printing each state of the game board.

A common heuristic is the Manhattan distance, which calculates the minimum number of moves needed to push all the boxes to their target positions.