Offline 02 Report

Artificial Intelligence Lab

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Section : C

|  | **Start state** | **#misplaced tiles heuristic** | **Manhattan distance** |
| --- | --- | --- | --- |
| **Hill climbing** | 3 1 2  6 4 5  0 7 8 | 0 1 2  3 4 5  6 7 8  h = 0  3 iterations | 0 1 2  3 4 5  6 7 8  h = 0  3 iterations |
| **Hill climbing** | 3 1 2  6 4 0  7 8 5 | 0 1 2  3 4 5  6 7 8  h = 0  5 iterations | 0 1 2  3 4 5  6 7 8  h = 0  5 iterations |
| **Simulated annealing** | 3 1 2  6 4 5  0 7 8 | 0 1 2  3 4 5  6 7 8  H = 0  14 iteration | 3 5 2  1 7 0  4 6 8  h = 9  299 iterations |
| **Simulated annealing** | 3 1 2  6 4 0  7 8 5 | 0 1 2  3 4 5  6 7 8  h = 0  25 iterations | 7 3 1  0 2 8  6 5 4  h = 13  299 iterations |