|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Action | Open Nodes | *f(n)* | *g(n)* | *h(n)* |
| 1  2  3  4  5  6  7  8 | Initial State  Expanded Lugoj  Add Timisoara  Add Mehadia  Expanded Mehadia  Add Drobeta  Expanded Drobeta  Add Craiova  Expand Craiova  Add Rimmicu Vilcea  Add Pitesti  Expand Timisoara  Add Arad  Expand Pitesi  Add Bucharest  Expand Bucharest  At Goal State | (L, 244)  (T, 440)  (T, 440), (M, 301)  (T, 440), (D, 387)  (T, 440), (R, 425)  (T, 440), (R, 604)  (T, 440), (R, 604), (P, 503)  (R, 604), (P, 503), (A, 595)  (R, 604), (A, 595), (B, 504)  (R, 604), (A, 595) | 244  440  301  387  425  604  503  595  504  - | 0  111  70  145  265  411  403  229  504  - | 244  329  241  242  160  193  100  366  0  - |

Problem 2b

|  |  |  |
| --- | --- | --- |
|  | Visited Node | Fringe |
| Forward | 1 | ForwardFringe = {2, 3} |
| Backward | 11 | BackwardFringe = {5} |
| Forward | 2 | ForwardFringe = {3, 4, 5} |
| Backward | 5 | BackwardFringe = {2} |