Lab-6 Page
Algorithm for 8 givens using Ae 29/10/24 · place greens gandonly with one green per column.
· tritialize priority greve with the start mode

and its houristic 2. Expand nodes:

* pervere the mode with the lowest fixture

bom perpetty quere.

the mode has no conflicts, rehim possible

solutions. 3. Grande successors: . For each quelly, more it to one tow within The each pow configuration compute the gralue and healist (his the hearistic which is the conflicting possibility) 4. Push the successor into priority quee:

1 = 9 th for each success and add to priority run

9 = coat for each success and exploring successors into

Continue expendes and exploring successors into

a solution is found

Algarian for 8 greens on Hill climbing 1. Inthalisation

Start with a rendem configuration where one

queen is placed in each column 2 Heathely Improve.

Comple the hourstic for the current stile

The heather value is 200, the solution is found 3. Generate heighhouring states:

To each queen generate the reighboring states by

moving it to every possible sow within its olumn and

calculate the houristic for each new state. 4. Choose the sext heighbor with locathouristic

select the peighbor with locathouristic

the peighbor with locathouristic

the peighbor with locathouristic

the peighbor with locathouristic

terminate. 5. Repeat until solution is achieved

Output for A ; Solution: [1,6,4,7,0,3,5,2] apput to Hillclin sing: One of the studies for g- Overs polen.