8 pazzle problem using DFS. Algorithm. let linge be a list containting the initial state (00 b if fringe is empty return failure node & remove-first (fringe) il node is a goal then return the path from initial state to node e) (e generate all successor node and add generated moderade to the front of tringe. end loop 27d prizzle problem wing bFS Algorithm! let fringe be a list containing the initial state it tringe is empty return failure node = remove\_first (fringe) if node on a good then return the path from initial state to node. 6/66 generated all successor node and add generated node to the back of tringe. end topp.

Algorithm:

Initialize the agents starting (x14)

Loop untill all cells are clean

a Perc'iemethe current cell

6. It the cell is dirty:

clean the current cell

else

check surrounding cell (up, down, lett, right) to Secit any are disty

More to the next dirty cells asing a stategy such as BFS, DFS or random imprements.

C. It no diety celli one percioned, stop (all cells are clean).

end (00P.

Jew 18.