Date Page

& pizzle des

\* Imitialize the Node with State, parent, action

masture tong

\* Class puggle:

Intialize the self, start, youl

def meighbours (suf, state)

initialize math, (row, lol) = state

create 8mpty list results.

if row > 0 thin do

copy mut to mat 1

move the empty tiles to up
append state to result

it colso them do
copy mat to mat 1
move the empty tiles to left
append state to results

it row <2 them do
copy mut to mut a
move the empty tiles to down
append state to results

if col &2 them do
copy must to mosts
move the smpty tiles to Right
appoint state to results

det des cecle):

Create the root mode

Create promiser stack for DES

Create a Set to store visited states

While frontier:

\* but the mode from the top of the Stack

return solution puth

\* Mark the current state as visited

\* for action, State in neighbors:

it state is not in visited:

create child mode

Add the chid to the frontier stack

Riturn None

Print Solution

State space True

moves: 10