69:	salving 8 puzzle publeme:
	Pseudocode:
	Class node:
	Function_suit- (state, parent=none, action=non
	path-cost=0):
	SET relf. etale = etale
	SET xelf-parent = parent
	SET xelf. action = action
	SET xelf. path_cost = path-cost
	Function expand():
	CREATE children
1	SET Dioco, col = fend-blank()
	CREATE poddible-actions
	IF evolute o THEN ADD "Up" to possible-acción
¥ 11	IF NOW L& THEN ADD DOWN to possible
	IF col to PHEN ADD " held" to possible-action
	FOR action IN paddible actions:
	' CREATE new state as a copy of delfal

APPEND (node · action, node · state) to para
set node=node.parent
REVERSE POOLS
FOR (action, state) an possi-
IF action is not none then
PRINT "Action: ", action
PRINT state
PRINT "ARPRA" - PRINT " A TATE
SET initial state = [[1] = 3] = [0,46] , [7,5,8]
SET goal-state = [11, 2, 37, [4,5,67, [7,8,0]]
SET solideon = depth first search (miteal-star
& goal stole)
at solution is not none THEN PRINT "Solution
found : " MORT ONCE ROT
CALL perint solution (solution)
One Classel Sala pix 12
PRINT "solution not found"
FINETICA CORED FORE MORENEGAL
Amplementing Iterative Deepening Search.
Pseudococle: 1111 2000 Tarasana 2 Tara
FUNCTION itelative-deepening-sealch (initial-state)
goal_state, alepth):
FOR depth FROM 0 to max-depth:
SET rescilt= depth_limited_search (initiality)
goal state, clepth)
IF result is not none THEN
RETURN reluct
ME TO STORE RETURN none
FUNCTION depth-limited search (node, goal state,
umit): : (similar)
1F node state==goal-state THEN RETURN node
IF node, depth >= limit THEN RETURN none
The TOKING THE TOTAL THE TIME

SET result=depth-limited_dearch (childo goal state, 1 imit) IF result is not None THEN RETURN rull RETURN none. SET initial-state goal-stale SET man-olepth SET solution = iterative-deepening-dearch (initial state goal state, max-depth) IF solution is not none THEN PRINT solution FLSE PRINT "no solution found"