	Simulated Anealing 11 Page Page Solving N-Queens explan
	Solving N-Queens problem
	31.05234
	Pseudocode:
	function EVALUATE (stade):
	n & length of state
	attack to
	for i from o to n-1:
-	for j from it 1 to n-1:
	if clate [i] = = state [i] on abs (state [i] state [i]
	=> abs(i-j):
	a Hocks - a Hacks + 1
	retwen-attacks libroz we are maximizing
	THE PARTY OF THE P
	function RANDON_NEISHBOR(stadi):
-	n - length of stade
	new state + copy of glate
	col < random integer blu o and no
	Now-conflicts ← [7]
20.1	for each you from 0 to n-1:
	How + state Lcol 1:
	temps state + copy of new state with new state
	[col] = xow
	now-confliction append (CHOW, EVALUATE (Homp-state)))
1000	A STATE OF THE STA
	if how-conflict is not empty:
Alle	best nowe seem with man evaluation in
	lean-conflicts
	Must new state [col] & best 40W
	return new date was and a said and
	function schepule(+):
	veteren max (0.01, mint 1, 1-0.00x +))

1 % at 15 function SIMULATED-ANNEAUNG (State, man-Herralton). for + from 1 to maniferation: if Too. Candidate = RANDON-NEIGHBOR (state) & L EVALUATE (condidate) - EVALUATE ( state) state - candidate prob + exp ( ( x + s)) if Kondom (i c prob; states candidate : Alors and an enter and and a Cook of CUATUATE ( Made) => 0

print ("Global max fount at, t) return stal, + print ["Reached local manimum found at iteration" maniferation) retwer state, man-teration function SOWE-N\_OUSENS(n); initial state + array of n random integer result, iteration & cimouATED\_ANNEAUNY (initial state 1 man iteration = 5000) votivon result, iterations Function PRINT\_BOARD (State); 1 (1) swarms arother. live " "

for col from oto notice and and of statistots = now: line a line 1 "0"; 100 0 else:
line & line + "." print (in) 1/ Haincode

N = User input Enter on of queen (N): "

COLUTION, Heration - Solve N-Overns (N): print (sol for N, queen found at, Heration, PRINT\_BOARD Coolettion) print ("Final waluation", Evaluate (10/4tion)). du Outputmone our vortinodard of present Enter number of queens (NIC & Cylobal manimum (no attacles) found at iteration 902 Solution for 8 queens in 902 Heraliam salay in with a said Office of States of The god trend : KB. the throwledge teach of expters . . . O . agal limitsongung all not foodors in dracting of interest in the or the control of the ST. SUSTANCE AND SOLVED - TT MALLINE final evalution conjective function value); o THUR OF THE If PARPLY (Symbola) them