	rage
# 	State space tree!
<u>(#)</u>	PSEUDOCODE:
	FUNCTION calculate - conflicts (barad):
	Set n = length (board)
1	Set conflicts = 0
n is hald	For i From 0 to m-1:
	For j from i+1 to n-1:
	board [i] = = board () or >) or
	ABS(board[i]-board[j]) == ABS (C-j):
the state	increment wendlike
1990	Return conflict
	FUNCTION 27 672 DUMANS
	genall - reighbours (board)!
	SET meighbours = : Empty lit
	For cal from D to length (board) -1:
-	For row from D tu length (board) -1:
	if rou l= board(cul):
-	set new-board=copy of board
-	Set new-board [col] = nove
	Append new-board to nighbours.
11211	Return neighbours.
	PUNIC TIPE AND
Tomory	Set n= length (board)
	for now from 0 to n-1;
10	set une="1"
	For wel from 0 to n-1.
l dia	if board (col) == neivi
	Donail "O" to too
1 21	else.
An order to be a second	Affendy. 1 to cine .
I may be much	PRINT Una
9,001	PRINT a blemk une

	(म) ड्राव्ह ड्रियट निवर
	FUNICTION hill-dimbing (n):
	Set board= list of m random integers (0 to 1-1)
Section 1	set wurnt-conflicts = calculate - conflicts (bourd)
Service of the servic	PRINIT" Initial burd:"
The state of the s	(ALL print-board (board)
	PRINT " conflicts: award conflicts;". Is thereworks
E=Jzo	
r Si	WHILE TRUE:
	SET neighbours gunalt - neighbours (hourd)
€13	
, ()	SET next-conflicts= current-conflicts
	FOR each neighbour IN neighbours:
	SET neighbour-conflicts = calculate-conflicts (neighboin)
p Ø	1F neighbour - conflicts < next-conflicts!
	SET nent-board = neighbour
8.0	SET next-conflicts = neighbour-conflicts
	IF nent-board is None OR nent-confluts == 0:
	BREAK & Drewwy
	print (" Cument board:"
12.	call print-board (board)
	PRINT "lonflets: current-conflects" 1= 300
	Print" But mighbour."
. ધિક	cell print-board (next-board) sx
	PRINT "Confluis" next—confluis"
	ut board = Max + - Bourd
	set consult - conflicts - M-ext - conflicts
12	printingifinal board"
	coll print-board (bagrd)
5	pront "conflects: munent-conflects"
	Refuer board, current-conflicts
	Set n=4
	nill-dimbing (n)
4 N 2 K 4 K 1	

20-

(H),	3	fate	SP	ace	tree	!					Draffer, plant i mangang an				
						. (1	OK			-11,	1)	11.		
		:	1, 21	· ·	Jan Oya	. P + /		,	8	24	1 : 37	,	,		
1/2 1 21	j	The first of the state of					Q2	1	-) Jan	C	ost	1		
						1.5	, h	Q:	3	1	1 1	,	44		
		,		3	1	Qı	1	*).1	1,5 %		١.	Vi n		_
Mar	w	rurt	P 9	$Q_1^{(i)}$)) (1)	- 1.70	J 10	1	زيررا	ri s	T	(11)	1.}		
			1	5									3	Cost	=3
		8,			84			-		04		111			Qy
cost=3	13	- 4)	Q2	o with	10 -	בו נוננלני	81	Q2	1076	401W		10	82		41
				23	ر کار (o W	- 15	5 j.c	Q3	20-10	1	8,		03	
	2	(hh)	3 7.3	-)] (بردد رال	1-21	i.j.	زبار		J-A1	1	9	1		
			: 2	, Y 193	(NG) 11	1 12	M	one	ost =	of Q	5	31			
of (netylan)	Λ	167	50.	'ادران	1	(14 kg)				हिं य		56		-	
		: 2 +	11)	- 4	84	ىلى د	1.70	V -	Jang	drigh.	in .	}	Q 2		Qy
cost=		Qı				लोगेए।								-	
		2	hij	03	- માંગ્રહ	helge	= 2-13	N In	<u> 3) -</u>	0,5 7,=	- 2	Q1		Q3	
C:	=	= 2-	82	((5) - 1	ton/sc	90°21	γоИ	Ы	םם ים	n.t-b	3/4	11			
		-								340),	
* • *				1		15 5 5 5					-			4	1
1.11 - 1			1 1	83		1000						<u>:</u>	Q2		Q
iost=1		81	1910	10.30	,	D MAN							-		
				1		in made						Q 1.			
	-		Q2.			- 1xx/							1,	93	
	╟		The			po Me		2 4			,				
*	-	15	13.) Liv	100		= 1410 (1).						_	-		
1-7	-	8,		83						-			Q2		
cost=0		q I	7	1 1.						t=0			radi		194
).	1983	92	11	3 1. 04	0: :00 + 10 +	12 11.	-)01	146	Mary.	B	t			
	2		owy	2.3	Linzras	110	Byne	7	A SA	1 0				93	
,			1		So.	em (- 13.C	(2	الدر	to,X			A		
,			. (lano	100/	pM	13 - 1	J.W.	twa	1.61	hula:) () () () () () ()		