(	Expand Nodes:
14/	> Bo the tate with the lowest f(n) from
	Expand Nodes:  >> Pop the state with the lowest f(n) from the open list.
	The special section of the section o
	and the solution is found.
	currents are doned the agal is achieved,
	and the solution is found
	and the sound is found.
	=> Otherwise generate still states by placing a queen
	=> Otherwise, generate child states by placing a queen in the next xow in each possible column.
	IN THE REAL SECTION OF THE PARTY OF THE PART
(1)	Calculate Heurietic for each child State:
(6)	=> for each child state,  secalculate $f(n) = g(n) + h(n)$ based on the new  quen placements.
	sucreliate ((n) = a(n) + h(n) based on the new
	Quella placement
	=> Add each child state to the open list.
(7)	Repeat:  2) Continue expanding nodes with the lowest f(n)  until a goal state (no conflicte) is found on the open list is empty.
	=> Continue expanding nodes with the lowert f(n)
	until a goal state (no conflicte) is found on the
	oven list is empty.
(8)	Goal check:
	If a state where all queens are placed without touflits is found enturn it as the solution.
	If no solution is found toward report failure.

 $\frac{f(n) = g(n) + h(n)}{\sin^2 n \cdot e^{-s}} = \frac{1}{\sin^2 n \cdot e^{-s}} = \frac{1$ DATE: 0,

	DAIL TACE
	Implement Hill climbing Search for 8-queins:
	Step 1: Create an averag of where each index represents a column be the value represents the row- projition of the queen in that you.
	position of the queen in that you.
	$q = \frac{\inf \{2\}}{2} = \frac{\inf \{3\}}{2} = \frac{\inf \{3\}}{2$
	g = The state of t
	8 6 A
	Step2: Initiate a xandom state where 8 queen are placed in a different column, but in a randomly choosen son.
	· placed in a different column, but in a randomly
	Choosen son.
	Stop 3 ? Store a heuristic value .h(n) There to Supresents
	Step 3: Evaluate the woment state by using h(n) to
	Step 3: Evaluate the current state by using h(n) to evaluate how many pairs of queens are conflicting each other.
	conflicting each other.
	Gep 4: Generate neighbors.  For each columns, try moring the queen to every passible your (except its current one) and generate neighboring states.
	For each columns, try moving the queen to every
	passible you (except its current one) and generate
	neighboring strates.
	Step 5: Mar Select the was best neighbor with lowest
	Step 5: Mor Select the no best neighbor with lowest heweithic value (h(n)) -> total conflicts priors
	Step 6: Mone to the new state if the new state's h(n) rated is lower than the current one.
	is lower than the current one.
-	
200	Step 2: If stuck, restant by back tracking.
A Co	