Disclaimer: I did Towers of Hanoi last semester. So I used the files and PaintComponents

THSolverFrame Class

Main Driver Class

Methods/classes within THSolverFrame

* solveTower (TowerOfHanoi towers, THComponent thc,int discs,int startPole,int tempPole,int endPole)

inner Queens Class

* Queens: Constructor
* canPlaceQueens (int r, int c): Boolean
* printQueens(int[] x):void
* placeNqueens(int r, int n):void
* callplaceNqueens():void

TowerOfHanoi Class

Methods

* TowerOfHanoi:constructor
* getArrayOfDiscs(int tower):int[]
* getNumberOfDiscs():int
* getNumberOfDiscs(int tower):int
* moveTopDisc(int fromTower, int toTower):Boolean

THComponent Class

Methods

* THComponent(TowerOfHanoi aTowers):constructor
* paintComponent(Graphics g):void

To run:

Just click on the jar file.

Documentation:

The main driver file is THSolver frame. In this file, I call the classes and methods that constructs and draws the Towers of Hanoi and quees solver. I used the class TowersOfHanoi to contruct a new tower and wrote methods that would allow me to “move” discs. The THComponent class draws said tower. The big O of the Tower Solver is O(2­n) while the the solver for the queens is O(n).