LAB-5

Project title: 8-queens using simulated Annealing

Algorithm:

* start at a random point x
* choose a new point x_j on neighbour N(x)
* Decide whether or not to move the new point x_j. The decision will be made on the probability function $P(x, x_j, T)$ (explained ahead)
* Reduce T

$P(x, x_j, T)$ is the function that will guide us in whether ~~no~~ we move to the new point or not :-

$$P(x, x_j, T) = \begin{cases} 1 & \text{if } F(x_j) \geq F(x) \\ e^{\frac{F(x_j) - F(x)}{T}} & \text{if } F(x_j) < F(x) \end{cases}$$