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SIMULATED ANNEALING

```
function simulated annealing( )
  current ← randomely generated intial state
  current-cost ← cost(current) # conflicts
    T ← a large positive value
    while T > 0 and current-cost > 0
        neighbour ← generated neighbour (current)
        neighbour_cost = cost(neighbour)

        if neighbour_cost < current_cost:
            current = neighbour
            current_cost = neighbour_cost
      T = T-1
  return current, current_cost
```

Function : cost

```
def cost( ~~state~~ state):
    conflicts = 0
    N = len (state)

  for i in range (N):
      for j in range (i+1, N):
          if state[i] == state[j]:
              conflicts += 1
  return conflicts.
```