Steps:

1. Select starting temperature and initial parameter values
2. Randomly select a new point in the neighborhood of the original
3. Compare the two points using the Metropolis criterion
4. Repeat steps 2 and 3 until system reaches equilibrium state (in practice, repeat the process N times for large N)
5. Decrease temperature and repeat the above steps, stop when system reaches frozen state

```
function simulated_annealing(max_number_of_iterations, temperature_step)
    temperature <- MAX_TEMPERATURE
    max_hilltop <- generate_random()
    max_fitness <- compute_fitness(max_hilltop)
    while temperature > 0
        for i in 0, max_number_of_iterations
            bit_position <- generate_random(1, length(max_hilltop))
            hilltop <- flip_bit(max_hilltop, bit_position)
            fitness <- compute_fitness(hilltop)
            if fitness > max_fitness:
                max_finess <- fitness
                max_hilltop <- hilltop
            else
                probability <- random(0, 1)
                acceptance_probability <- exp((max_fitness - fitness) / temperature)
                if probability < acceptance_probability
                    max_fitness <- fitness
                    max_hilltop <- hilltop
        temperature <- temperature * temperature_step
    return max_hilltop
```