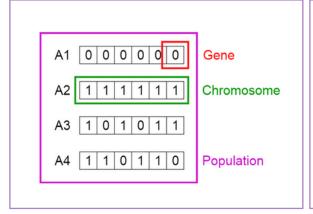
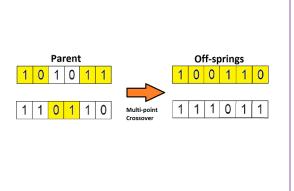


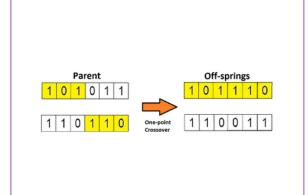
INTRODUCTION

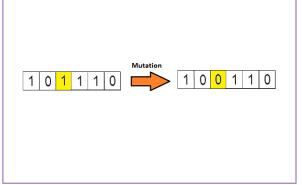
- A genetic algorithm is a search heuristic that is inspired by Charles Darwin's theory of natural evolution.
- This algorithm reflects the process of natural selection where the fittest individuals are selected for reproduction in order to produce offspring of the next generation.

FOUNDATION

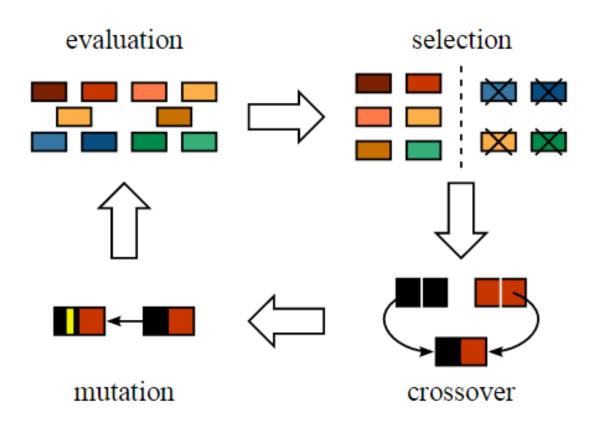








- Five phases are considered in a genetic algorithm.
- I. Initial population
- 2. Fitness function
- 3. Selection
- 4. Crossover
- 5. Mutation



STOPPING CONDITIONS FOR THE ALGORITHM

- I. Generations
- 2. Time limit
- 3. Fitness limit
- 4. No Improvement
- • •

EXAMPLES

- I. create target string, starting from random string
- 2. n queen