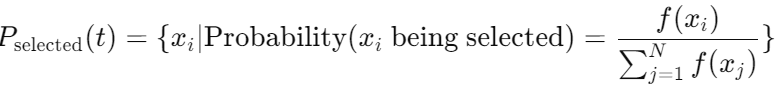
**1. Initialization**: Generate an initial population of binary strings:

**2. Evaluation**: Evaluate each string in the population

**3. Selection of Parents:**



**4. Crossover:**

e.g., Single-point crossover:

where *c is* the crossover point.

**5. Mutation**: For each offspring

**6. Form New Population:**

**7**. If **termination** condition met (e.g., maximum generations or satisfactory fitness), stop; else and repeat from step 2

Reference:

<https://mealpy.readthedocs.io/en/latest/pages/models/mealpy.evolutionary_based.html> #module-mealpy.evolutionary\_based.GA