EC Assignment #4 (NSGA-ll)

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The **NSGA-II** (Non-dominated Sorting Genetic Algorithm II) is a popular multi-objective optimization algorithm designed to solve problems like the ZDT suite effectively, it follows these main steps:

1. **Initialization:**

**Population:** Generate an initial population of size N with random solutions within the problem's bounds.

**Representation:**　Each individual represents a solution with decision variables .

**Evaluation**: Compute the objective functions for all individuals.

1. **Non-dominated Sorting:**
2. **Crowding Distance:**
3. **Selection (Binary Tournament):**
4. **Crossover and Mutation:**
5. **Environmental Selection:**
6. **Termination:**