

- roommate: UniversityStudent
- + calculateConnectionStrength(other: Student): int
- + UniversityStudent(name: String, age: int, gender: String, year: int, major: String, gpa: double, roommatePrefs: List<String>, previousInterns: List<String>)
- + setRoommate(roommate: UniversityStudent): void
- + getRoommate()

StudentGraph

- -adjacencyList: Map<UniversityStudent, List<Edge>>
- + StudentGraph(students: List<UniversityStudent>)
- + displayGraph(): void
- + addEdge(studentA: UniversityStudent, studentB: UniversityStudent, weight: int): void
- + getNeighbors(student: UniversityStudent): List<Edge>
- + getAllNodes(): Set<UniversityStudent>

Edge

- + neighbor: UniversityStudent
- + weight: int
- + Edge(neighbor: UniversityStudent, weight: int)
- + toString(): String