

creature needs gridpoint

creature
+ point: Gridpoint + city: City + rand: Random + lab: LAB_GRAY + dir: Integer + dead: Boolean + steps: int
+ isDead(): Boolean + get Y(): int + get X(): int + get GridPoint(): GridPoint + get Lab(): char + set Dir(int dir): void + get Dir(): int + dist(creature): int + randomTurn(): void + toString(): String

mouse
- round: int + x: int + y: int + city: City + rnd: Random
+ step(): void + takeAction(): void

extends creature

cat
+ time Since Fed: int + x: int + y: int + city: City + rnd: Random
+ step(): void + takeAction(): void + findClosest(creature): Creature + search(): void

extends creature

City
+ creatures: List<Creatures> + creaturesToAdd: Queue<Creatures> - rand: Random + numMice: int + numCats: int
+ numCreatures(): int + addMouse(): void + birthMouse(int x, int y): void + addCat(): void + addNewCreatures(): void + simulate(): void

city needs mouse + cat

Gridpoint
x: int y: int
equals(Object): boolean hashCode(): int toString(): String minDist(int, int, int): int dist(Gridpoint): int