```
--------------------------------------
|              Particle               |
|------------------------------------|
| - x: int                           |
| - y: int                           |
|------------------------------------|
| + Particle(x: int, y: int)         |
| + moveRandomly(): void             |
| + getX(): int                      |
| + getY(): int                      |
--------------------------------------
                  |
                  |
                  V

--------------------------------------
|                 Box                 |
|------------------------------------|
| - instance: Box                    |
| - width: int                       |
| - height: int                      |
| - particles: List<Particle>        |
|------------------------------------|
| + getInstance(): Box               |
| + simulate(steps: int): void       |
| - moveParticles(): void            |
| - checkCollisions(): void          |
| - visualizeBox(): void             |
| + getWidth(): int                  |
| + getHeight(): int                 |
--------------------------------------
                  |
                  |
                  V

--------------------------------------
|                Main                 |
|------------------------------------|
|                                    |
| + main(args: String[]): void       |
--------------------------------------
```