```
PlanetAlpha
name: str
ground: char
latitude cells count: int
longitude_cells_count: int
_init_(name: str, latitude_cells_count: int, longitude_cells_count: int, ground: char): void
get_random_free_place(): int
spawn(cell_number: int, element: Element): void
despawn(cell number: int): void
                           Element
                                                                                    PlanetTk
                                                                       CARDINAL POINTS: tuple[int]
           name: str
           ground: char
                                                                       WIND ROSE: tuple[int]
                                                                       init(): void
           init(name: str, ground: char): void
                                        Snake
size: int
speed: int
direction: str
body: list[(int, int)]
init (name: str, ground: char, size: int, speed: int, direction: str): void
get next position(): int
avance(): void
turn left(): void
turn right(): void
mange(): void
                                        Food
                      name: str
                      ground: char
                      init (name: str, ground: char): void
```

canvas: tk.Canvas game: SnakeGame init(): void SnakeGame canvas: tk.Canvas root: tk.Tk planet\_alpha: PlanetAlpha snake: Snake food: Food score: int restart\_button: Button init (canvas: tk.Canvas, root: tk.Tk): void start(): void update(): void draw(): void change direction(new direction: str): void check\_collision(): bool game over(): void create\_restart\_button(): void restart\_game(): void destroy restart button(): void **Button** button: tk.Button init(canvas, text, command, x, y): void destroy(): void

MyApp

root: tk.Tk