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CS 162 - Assignment 3
Design Document - Class Hierarchy
Class: Character
        Behavior:
                + virtual attack(): int
                + virtual defend(): int
                + surviveDefense(): bool
Class: Goblin
        Attributes:
                - isAlive: bool
                - attackDice[]: vector <int>
                - defenseDice[]: vector <int>
                - armor[]: vector <int>
                - strength: int
        Behavior:
                + attack(): int
                + defend(): int
Class: Barbarian
        Attributes:
                - isAlive: bool
                - attackDice[]: vector <int>
                - defenseDice[]: vector <int>
                - armor[]: vector <int>
                - strength: int
        Behavior:
                + attack(): int
                + defend(): int
Class: Reptile
        Attributes:
                - isAlive: bool
                - attackDice[]: vector <int>
                - defenseDice[]: vector <int>
                - armor[]: vector <int>
                - strength: int
        Behavior:
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+ attack(): int

+ defend(): int

Class: Blue

Attributes:

- isAlive: bool
- attackDice[]: vector <int>
- defenseDice[]: vector <int>
- armor[]: vector <int>- strength: int
- bluePop: int

Behavior:

- + attack(): int
- + defend(): int

Class: Shadow

Attributes:

- isAlive: bool
- attackDice[]: vector <int>
- defenseDice[]: vector <int>
- armor[]: vector <int>
- strength: int

Behavior:

- + attack(): int
- + defend(): int