

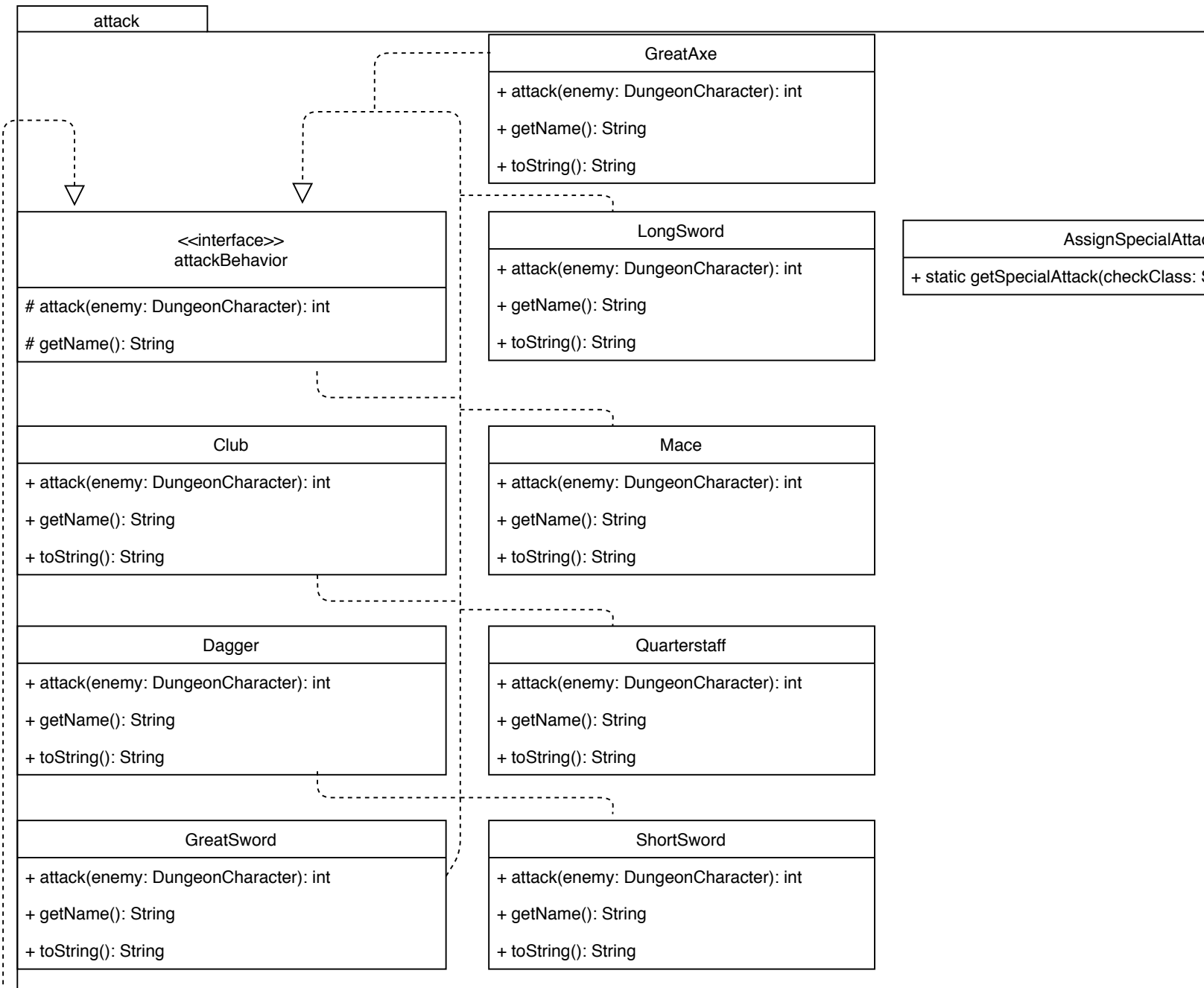
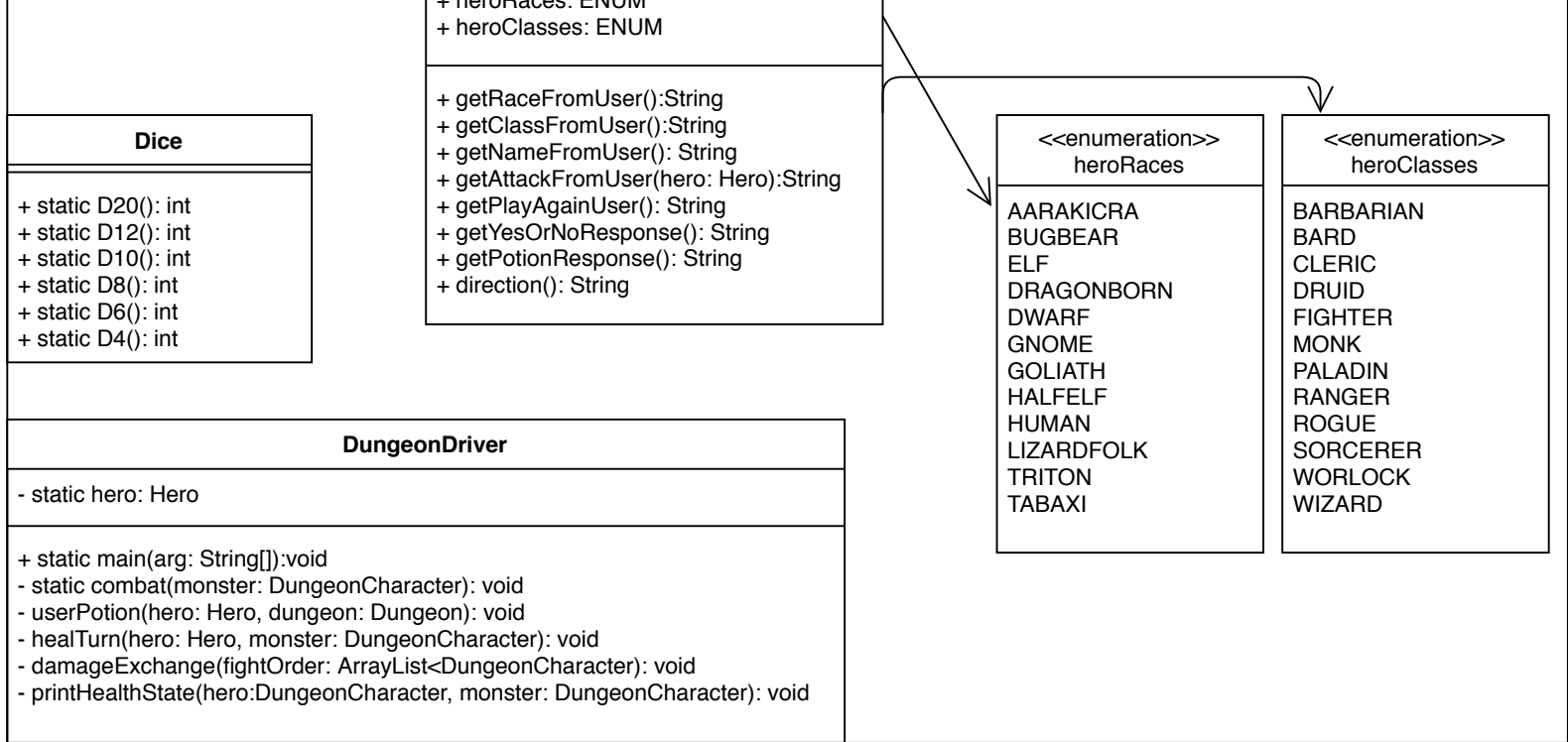
main

Trap
+ static trap(hero: Hero): void

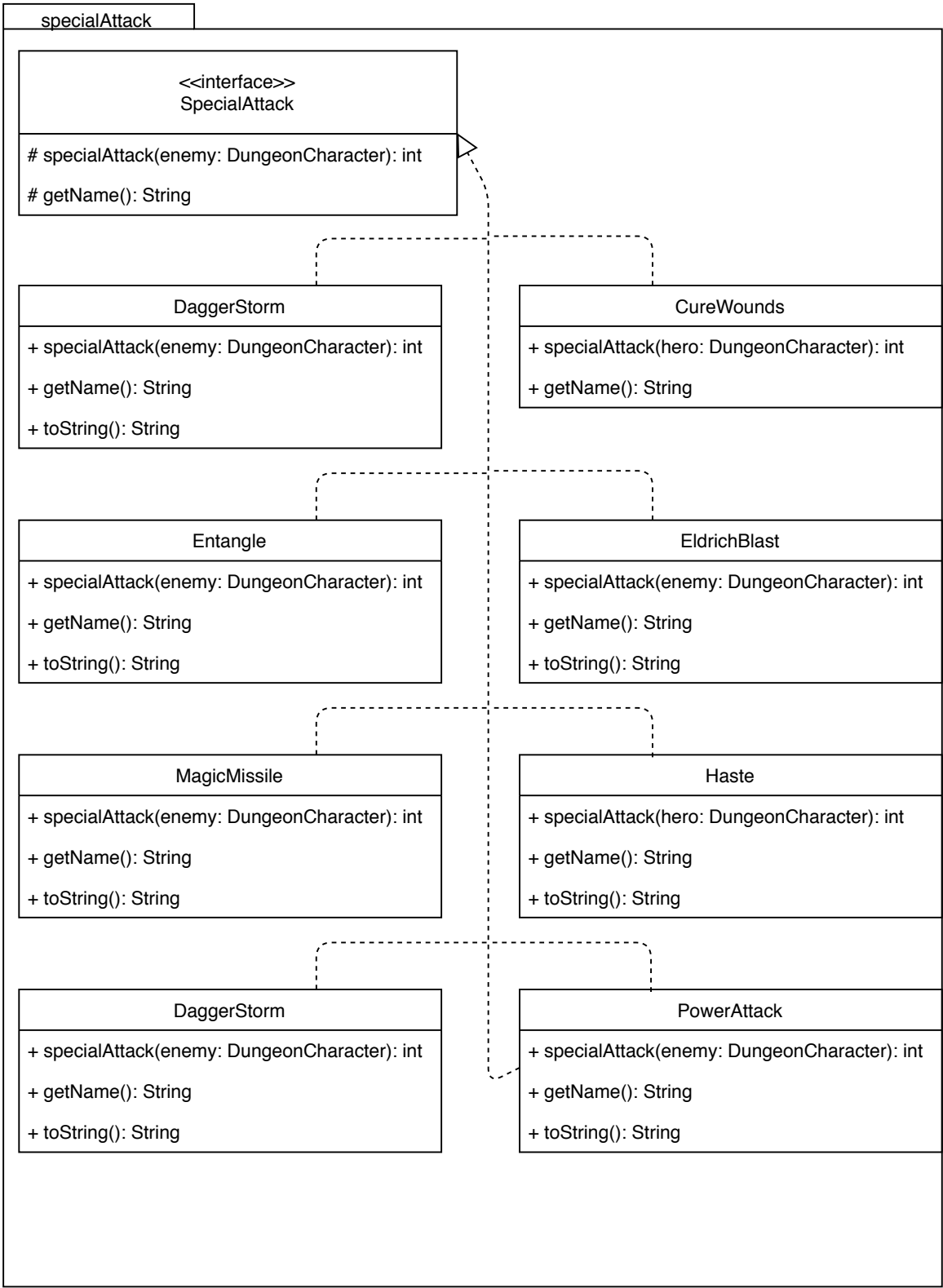
Dungeon
- xLoc: int - yLoc: int + dungeon: char[][]
+ printVisionPotion(): void + getXLoc(): int + getYLoc(): int + setXLoc(x: int): void + setYLoc(y: int): void + move(direction: String) void + getDungeon(): char[][]

Room
- tempRoom: char[][] - monster: boolean - north, east, south, west: boolean - key: boolean - healPotion, manaPotion, visionPotion: boolean - trap: boolean
+ room(tempRoom: char[], keyCount: int) + printRoom(dungeon:char[], xLoc: int, yLoc: int): void + setRoomAscii(dungeon: char[], xLoc: int, yLoc: int): void + hasMonster(): boolean + hasKey(): boolean + hasTrap(): boolean + hasPotion(): boolean + hasHealPotion: boolean + hasManaPotion: boolean + hasVisionPotion: boolean + setNorth(set: boolean): void + getNorth(): boolean + setEast(set: boolean): void + getEast(): boolean + setSouth(set: boolean): void + getSouth(): boolean + setWest(set: boolean): void + getWest(): boolean

GetUserInput
+ heroPaces: ENUM



cks
String): AttackBehavior



**<<abstract>>
DungeonCharacter**

name: String
hitPoints: int
initiative: int
AC: int
attackBehavior: AttackBehavior

+ DungeonCharacter(name:String, hitPoints:int, initiative: int, AC:int, attackBehavior: AttackBehavior)
+ getAC():int
+ setAC(AC:int):void
+ getName():String
+ getAttackBehavior(): AttackBehavior
+ getHitPoints(): int
+ getInitiative(): int
+ setInitiative(initiative: int): void
+ addHitPoints(hitPoints: int):void
+ subtractHitPoints(hitPoints: int):void
+ isAlive(): boolean

Monster

+ Monster(name: String, hitPoints: int, initiative: int, ac: int, ab: AttackBehavior)
+ setNewMonsterAttack(attack: AttackBehavior): void
+ attack(enemy: DungeonCharacter): int

Extends

Skeleton

+ Skeleton()
+ toString: String

Bandit

+ Bandit()
+ toString: String

Orc

+ Orc()
+ toString: String

KoBold

+ KoBold()
+ toString: String

Extends

Goblin

+ Goblin()
+ toString: String

Gnoll

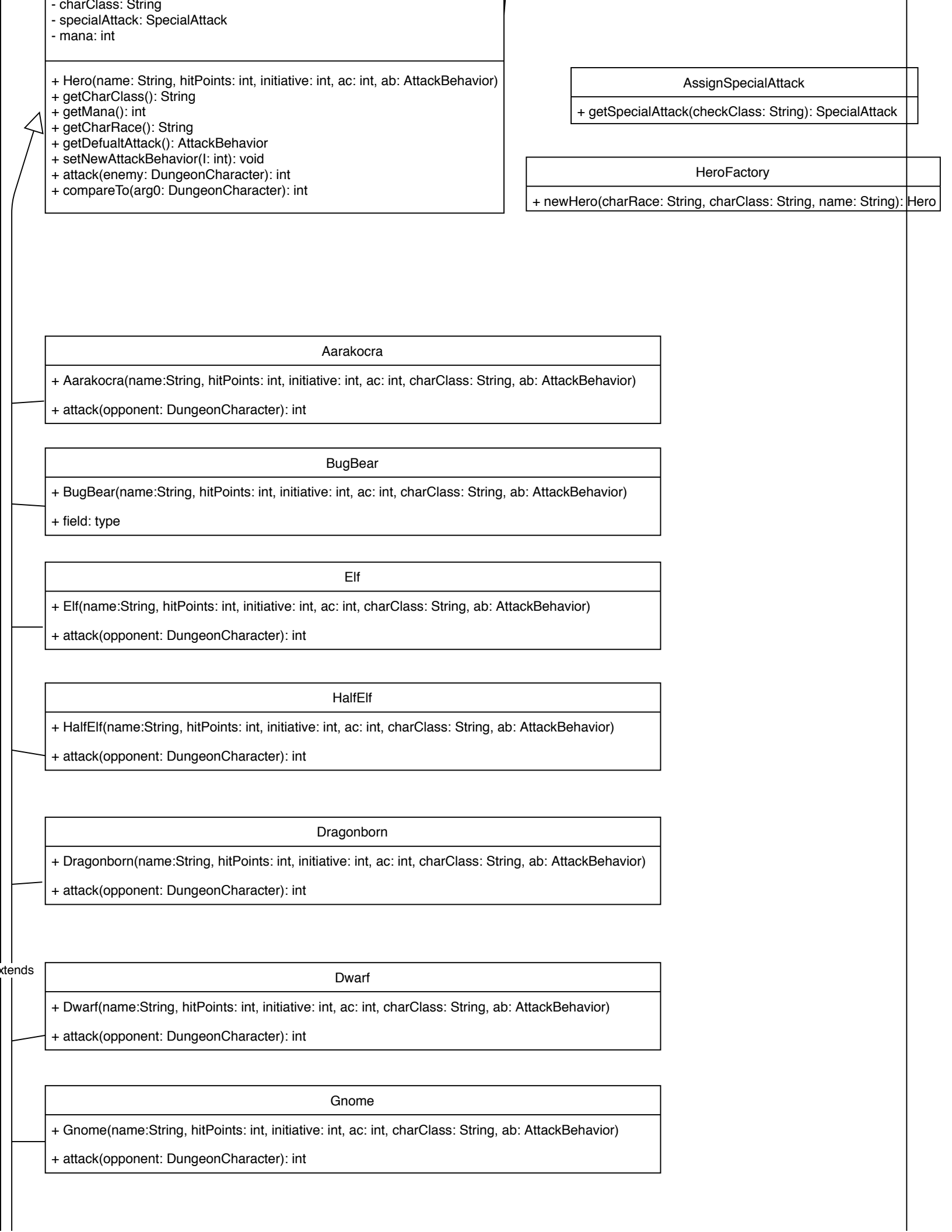
+ Gnoll()
+ toString: String

MonsterFactory

+ newMonster(n: int): Monster

Hero

- charRace: String



Goliath

+ Goliath(name:String, hitPoints: int, initiative: int, ac: int, charClass: String, ab: AttackBehavior)
+ attack(opponent: DungeonCharacter): int

Tabaxi

+ Tabaxi(name:String, hitPoints: int, initiative: int, ac: int, charClass: String, ab: AttackBehavior)
+ attack(opponent: DungeonCharacter): int

Human

+ Human(name:String, hitPoints: int, initiative: int, ac: int, charClass: String, ab: AttackBehavior)
+ attack(opponent: DungeonCharacter): int

Triton

+ Triton(name:String, hitPoints: int, initiative: int, ac: int, charClass: String, ab: AttackBehavior)
+ attack(opponent: DungeonCharacter): int

Lizardfolk

+ Lizardfolk(name:String, hitPoints: int, initiative: int, ac: int, charClass: String, ab: AttackBehavior)
+ attack(opponent: DungeonCharacter): int

