Unit: Interface Constants: namespace x: int y: int UnitType: enum - health: int Actios: enum - force: int N TYPES: int type: UnitType UnitTypeStr: string[] last action: Constants::Actions contr attack coeff: double + alive: bool Attacker health: int - Unit(x: int, y: int, health: int, force: int, type: UnitType) Attacker force: int + move(dx: int, dy: int): void+ get_unit_type(): UnitType Attacker cost: int + get unit resource(): int + cause_damage(dmg: int): void Producer_health: int + attack(other: Unit&): void + players: vector<Player> + 1 Producer_force: int + print_unit(): void Producer cost: int + step(): int + Game() Producer_produce: int + try move(h: int): bool + try_create(h: int): bool Safer_health: int +1 + try_attack(h: int): bool Safer force: int + try_merge(h: int): bool Safer_cost: int + start(): void PlayerInitResources: int + 1..* + 1..* + 1 ..* Safer **Producer** Attacker + produce: int + Safer(x: int, y: int) + Attacker(x: int, y: int) + get_unit_resources(): int + get unit resources(): int + Producer(x: int, y: int) + get_unit_resources(): int + step(): int Player Army + resources: int · last_action: ArmyAction + armies: vector<Army*> units: vector<Units*> [] + Fact[]: UnitFactory* - remove unit(v: vector<Unit*>&, pos: int): void - remove_unit(type: Constants::UnitType, pos: i + Player()+ create_empty_army(): void + clean_army(army: Army*): void clean army(v: vector<Unit*>&): void clean_army(type: Constants::UnitType): void + add_unit_to_army(type: Constants::UnitType, n_army: int): bool + clean_all_army(): void + attack(n_my_army: int, other: Player_with_army, n_oth_army: int): bool + Army() + move(n army: int, dx: int, dy: int): bool + Army(v: vector<Unit*>&) + merge_armies(n1: int, n2: int) + add_unit(u: Unit*): void + step(): int + step(): void + print_army(): void + attack(other: Army&) + move(dx: int, dy: int): void UnitFactory + create_unit(resources: int&, x: int, y: int): Unit* +1 + can create(resources: int&): bool +1..* +1..* +1..*

AttackerFactory

+ create unit(resources: int&, x: int, y: int): Unit* + create unit(resources: int&, x: int, y: int): Unit* + create unit(resources: int&, x: int, y: int): Unit* + can_create(resources: int&): bool + can_create(resources: int&): bool + can_create(resources: int&): bool

ProducerFactory

SaferFactory

Game