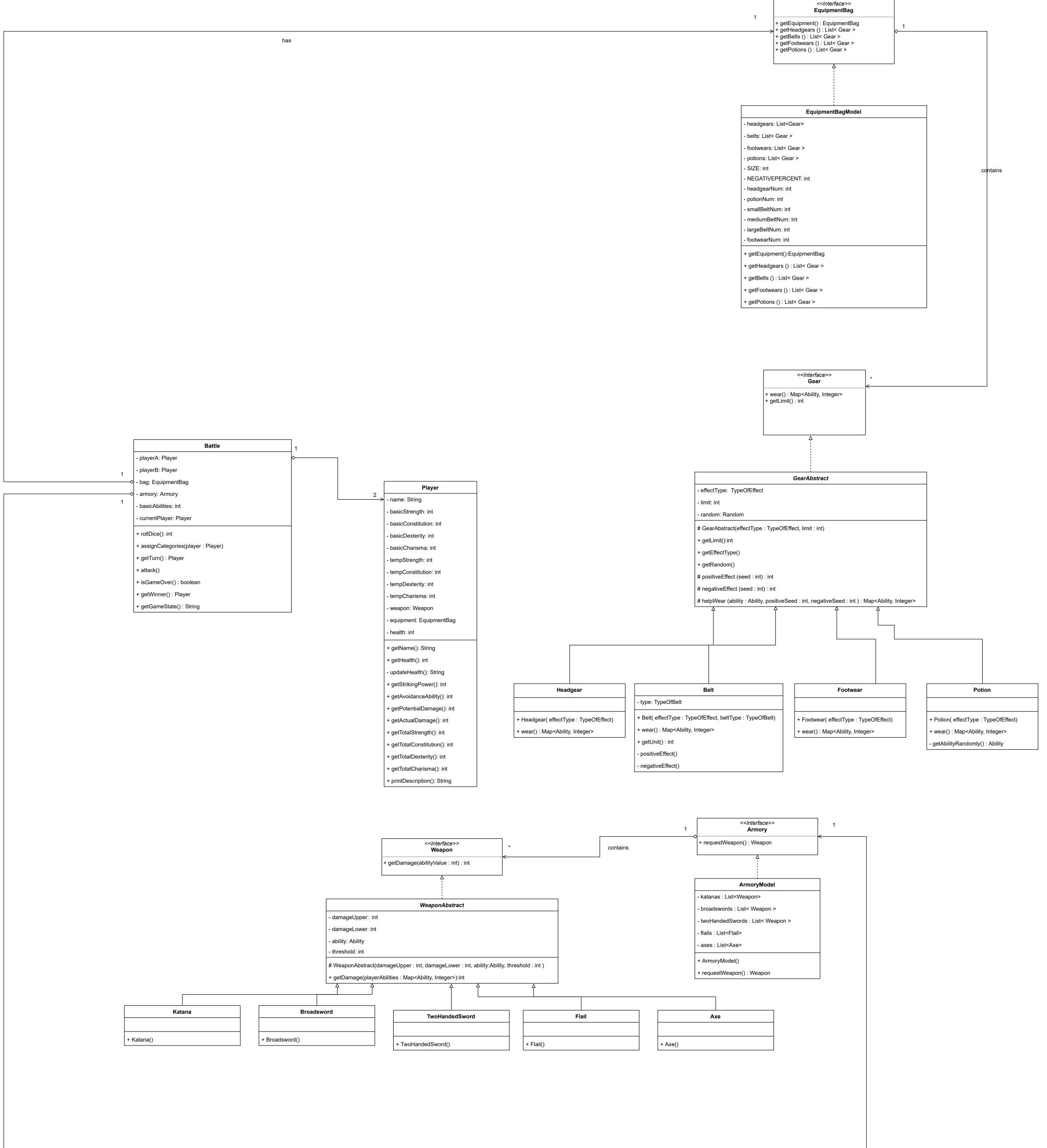
has



Testing gears	Input	expected value
Instantiate a headgear with negative effects	Headgear(TypeOfEffect.NEG ATIVE)	{Ability.CONSTITUTION: x}(-3<=x<0)
Instantiate a headgear with positive effects	headgear.use() Headgear(TypeOfEffect.POSITIVE)	{Ability.CONSTITUTION: x}(0 <x<=5)< td=""></x<=5)<>
Instantiate a small belt with negative effects	, TypeOfBelt.SMALL) belt.use();	{Ability.CONSTITUTION: -1},{Ability.CHARISMA, - 1}
Instantiate a small belt with positive effects	getUit(); Belt(TypeOfEffect.POSITIVE, TypeOfBelt.SMALL) belt.use();	Ability.CONSTITUTION: 1},{Ability.CHARISMA, 1}
Instantiate a medium belt with negative effects	getUit(); Belt(TypeOfEffect.NEGATIVE , TypeOfBelt.MEDIUM) belt.use(); getUit();	{Ability.CONSTITUTION: -2},{Ability.CHARISMA, - 2}
Instantiate a medium belt with positive effects	Belt(TypeOfEffect.POSITIVE, TypeOfBelt.MEDIUM) belt.use();	{Ability.CONSTITUTION: 2},{Ability.CHARISMA, 2}
Instantiate a large belt with negative effects	getUit(); Belt(TypeOfEffect.NEGATIVE , TypeOfBelt.LARGE) belt.use();	{Ability.CONSTITUTION: -4},{Ability.CHARISMA, - 4}
Instantiate a medium belt with positive effects	getUit(); Belt(TypeOfEffect.POSITIVE, TypeOfBelt.LARGE) belt.use();	4 {Ability.CONSTITUTION: 4},{Ability.CHARISMA, 4}
Instantiate a potion with negative effects	getUit(); Potion(TypeOfEffect.NEGATIVE) potion.use();	{a random Ability: x} (- 3 <x<0)< td=""></x<0)<>
Instantiate a potion with positive effects	Potion(TypeOfEffect.POSITI VE) potion.use();	{a random Ability: x} (0 <x<=10)< td=""></x<=10)<>
Instantiate a footwear with negative effects	Footwear(TypeOfEffect.NEG footwear.use();	{Ability.DEXTERITY: x}(- 3< x<0)
Instantiate a footwear with positive effects	Footwear(TypeOfEffect.POSITIVE) footwear.use();	{Ability.DEXTERITY: x}(0< x <=5)
Testing EquipmentBagModel	V.	

	Fourier mant De silve -1-1/	
In the second	EquipmentBagModel()	count
Instantiate a equipment bag and	int count = 0;	==EquipmentBagModel.
testing whether it contains 25%	for(){ all the equipment, if it	SIZE *
equipment with negative effects	has negative effects, count	EquipmentBagModel.NE
	++}	GATIVEPERCENT;
	Equipmentbag playerbag =	hnum + sbnum +
	bag.getEquipment()	mbnum + Ibnum + fnum
testing getEquipment() and make		==20;
sure there are 20 items returned	int hnum=0, pnum=0,	hnum<= headgearNum,
and the number of each type of	sbnum=0, mbnum=0,	pnum <= potionNum,
items can not be greater than the	lbnum=0,fnum=0;	sbnum <=
total count of that type in the bag.	for(){ all the equipment in	smallBeltNum, mbnum
in the bug.	the playerBag, count the	<= mediumBeltNum,
	number of each type	lbnum <= largeBeltNum,
	equipment}	fnum <= footwearNum
testing getEquipment() when there	Fauinmonthag playerhag =	
is no equipment or the number of	<pre>Equipmentbag playerbag = bag.getEquipment()</pre>	IllegalStateException
equipment < 20	bag.getEquipment()	_
Testing weapons		
Instantiate a Katanas	Katanas()	x (4<=x <=6)
motaritiate a Naturias	getDamage(null)	A(1, A, 0)
Instantiate a Broadsword	Broadsword()	x (6<=x<=10)
mataritiate a broadsword	getDamage(null)	
Instantiate a TwoHandedSword,	TwoHandedSword()	
testing getDamage with a player	getDamage(10),10 means	x(4 <= x <= 6)
whose strength < 14	the strength of the player	
Instantiate a TwoHandedSword,	TwoHandedSword()	
testing getDamage with a player	getDamage(16),16 means	x(8<=x<=12)
whose strength > 14	the strength of the player	<i>'</i>
-	Axe()	
Instantiate a Axes	getDamage(null)	x (6<=x<=10)
Instantiate a Flail, testing	Flail()	
getDamage with a player whose	getDamage(10),10 means	x(4<=x<=6)
dexterity < 14	the dexterity of the player	
,	Flail()	
Instantiate a Flail, testing getDamage with a player whose	getDamage(16),16 means	x(8<=x<=12)
dexterity > 14	the dexterity of the player	\(\(\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
GENICITY > 14	the devicinty of the biasel	
Tasking Awar & Mardal		
Testing ArmoryModel		
		·

Instantiate an ArmoryModel and testing if there are 5 types of weapons in the armory and each type has at least one weapon	ArmoryModel()	katanas.size()>=1, broadswords.size()>=1,t woHandedSwords.size()> =1,flails.size()>=1, axes.size()>=1
testing requestWeapon()	Weapon weapon = requestWeapon()	weapon != null
testing requestWeapon() when	Weapon weapon =	IllegalStateException
there is no weapon in the Armory	requestWeapon()	
Testing Battle		
Instantiate Battle	Battle battle = new Battle()	it can create two players, a equipment bag, an armory and each player has 20 gears, 1 weapon and each player has basic
Testing rollDice()	Battle battle = new Battle() int x = battle.rollDice();	1 <= x <=6
	Battle battle = new Battle()	2 <= player.constituion +
	Player player = new Player()	player.strength +
Testing assignCategories()	battle.assignCategories(play	player.charisma +
	er)	player.dexterity <= 24
Testing getTurn(),the first player	Battle battle = new Battle()	current.charisma > the
should have greater charisma than	Player current =	other's charisma
the other	battle.getTurn()	
Testing getTurn() after playerA has attacked	Player current = getTurn()	current.getName().equals (playerB.getName());
Testing isGameOver() after the	boolean flag =	FALSE
game isn't over	battle.isGameOver();	171202
Testing isGameOver() after the game is over	boolean flag = battle.isGameOver();	TRUE
Testing getWinner() when playerA	Player winner =	winner.getName.equals(
wins the game	battle.getWinner()	playerA.getName());
Testing getWinner() when playerB	Player winner =	winner.getName.equals(
wins the game	battle.getWinner()	playerB.getName());

	T	1
Testing getWinner() when it's a tied	Player winner = battle.getWinner()	winner == null
game Testing getWinner() when the	Player winner =	
game hasn't been over	battle.getWinner()	winner == null
Testing playerA.attack() when the		
game is over	playerA.attack()	IllegalStateException
Testing playerB.attack() when the	playerB.attack()	IllegalStateException
game is over	"	
Testing Player		
Testing constructor with the name Tom, basicStrength 10, basicConstitution 9, basicDexterity 5, basicCharisma 8	Player player = new Player("Tom", 10, 9,5,8)	player.getName().equals("Tom");player.getBasicStr ength()==10;player.getB asicConstitution==9; player.getBasicDexterity == 5; player.getBasicCharisma == 8
	Player player = new Player("Tom", 10, 9,5,8)	each Ability listed in the
Testing player use a potion with positive effect;	EquipmentBag bag = player.bag;	Map should be added the value in the Map.
	Map <ability, integer=""> effects=bag.getPotions().ge t(0).use();</ability,>	
Testing player use a potion with negative effect;	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getPotions().ge t(0).use();</ability,>	each Ability listed in the Map should be subtracted the value in the Map.
Testing player use a headwear with negative effect;	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getHeadwear(). get(0).use();</ability,>	each Ability listed in the Map should be subtracted the value in the Map.
Testing player uses a headwear	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag;	each Ability listed in the Map should be added

Iwith positive effect,	Map <ability, integer=""> effects=bag.getHeadwear(). get(0).use();</ability,>	the value in the Map.
Testing player uses a headwear when he has used one	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getHeadwear(). get(0).use();</ability,>	IllegalStateException
Testing player uses a pair of foot wears with postive effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getFootwears(). get(0).use();</ability,>	each Ability listed in the Map should be added the value in the Map.
Testing player uses a pair of foot wears with negative effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getFootwears(). get(0).use();</ability,>	each Ability listed in the Map should be subtracted the value in the Map.
Testing player uses a pair of footwear when he has used one	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getFootwears(). get(0).use();</ability,>	IllegalStateException
Testing player uses a small belt with postive effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getSmallBelt().g et(0).use();</ability,>	each Ability listed in the Map should be added the value in the Map.
Testing player uses a small belt with negative effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getSmallBelt().g et(0).use(); Player player = new</ability,>	each Ability listed in the Map should be subtracted the value in the Map.

Testing player uses a medium belt with postive effects	EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getMediumBelt().get(0).use();</ability,>	each Ability listed in the Map should be added the value in the Map.
Testing player uses a medium belt with negative effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getLargeBelt().g et(0).use();</ability,>	each Ability listed in the Map should be subtracted the value in the Map.
Testing player uses a large belt with postive effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getLargeBelt().g et(0).use();</ability,>	each Ability listed in the Map should be added the value in the Map.
Testing player uses a large belt with negative effects	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getMediumBelt().get(0).use();</ability,>	each Ability listed in the Map should be subtracted the value in the Map.
Testing player uses a small belt when he has used 10 units of belts	Player player = new Player("Tom", 10, 9,5,8) EquipmentBag bag = player.bag; Map <ability, integer=""> effects=bag.getBelts().get(0) .use();</ability,>	IllegalStateException
Testing player getStrikingPower(), if there are 20 strength in total after calling equip()	Player player = new Player("Tom", 10, 9,5,8) player.equip(); int x = player.getStrikingPower()	21<=x<=30
Testing get Avgidance A hility() if	Player player = new Player("Tom", 10, 9,5,8)	

there are 15 dexterity in total after calling equip()	player.equip();	16<=x<=21
	int x = player.getAvoidanceAbility()	
	Player player = new Player("Tom", 10, 9,5,8)	
Testing getPotentialDamage(), if there are 21 strength in total after calling equip() and the player uses a Axe as a weapon	player.equip();	27<=x<=31
	<pre>int x = player.getPotentialDamage()</pre>	
Testing getPotentialDamage(), if there are 21 strength in total after calling equip() and the player uses Katanas as a weapon	Player player = new Player("Tom", 10, 9,5,8)	
	player.equip();	25<=x<=27
	<pre>int x = player.getPotentialDamage()</pre>	
Testing getPotentialDamage(), if	Player player = new Player("Tom", 10, 9,5,8)	
there are 20 strength in total after calling equip() and the player uses	player.equip();	26<=x<=30
a Broadsword as a weapon	<pre>int x = player.getPotentialDamage()</pre>	
Testing getPotentialDamage(), if there are 10 strength in total after calling equip() and the player uses a TwoHandedSwords as a weapon but the player doesn't have enough strength to use it(strength < 14)	Player player = new Player("Tom", 10, 9,5,8)	
	player.equip();	14 <=x <=16
	<pre>int x = player.getPotentialDamage()</pre>	
Testing getPotentialDamage(), if there are 20 strength in total after calling equip() and the player uses a TwoHandedSwords as a weapon	Player player = new Player("Tom", 10, 9,5,8)	
	player.equip();	28<=x <=32
	<pre>int x = player.getPotentialDamage()</pre>	

Testing getPotentialDamage(), if there are 10 strength and 10 dexterity in total after calling equip() and the player uses a Flail as a weapon but the player doesn't have enough dexterity to use it(dexterity < 14)	Player player = new Player("Tom", 10, 9,5,8) player.equip(); int x = player.getPotentialDamage(14 <=x <=16
Testing getPotentialDamage(), if there are 20 strength in total after calling equip() and the player uses a Flail as a weapon	Player player = new Player("Tom", 10, 9,5,8) player.equip(); int x = player.getPotentialDamage()	-28<=x<=32
Testing attack(), if the striking power of PlayerA is greater than the avoidandce ability of the PlayerB, and the potential damage of PlayerA is 28 and the	playerA.attack(playerB)	playerB.getHealth() should have been deducated 8
Testing attack(), if the striking power of PlayerA is smaller than the avoidandce ability of the PlayerB	playerA.attack(playerB)	no effect
Testing attack(), if the striking power of PlayerA is greater than the avoidandce ability of the PlayerB but they have the same value in potential damage and constitution respectively	playerA.attack(playerB)	no effect
Testing the constructor of Player	Player("Tom", 0,0,0,0) Player("Tom", 0,10,10,10) Player("Tom", 10,0,10,10) Player("Tom", 10,10,0,10) Player("Tom", 10,10,10,0) Player("Tom", -1,-1,-1,-1) Player("Tom", -1,10,10,10) Player("Tom", 10,-1,10,10) Player("Tom", 10,10,-1,10) Player("Tom", 10,10,-1,10)	IllegalArgumentExcetion