```
public class Spaceship {
       private String shipName;
       private int passengerCount;
       private int maxPassengers;
       public Spaceship(String shipName, int maxPassengers) {
              this.shipName = shipName;
              this.maxPassengers = (maxPassengers >= 0)?maxPassengers:100;
               /* Code above is equal to:
              if (maxPassengers >= 0)
                      this.maxPassengers = maxPassengers;
              else
                      this.maxPassengers = 100; */
       }
       public void setShipName(String shipName) {
              this.shipName = shipName;
       public String getShipName() {
              return this.shipName;
       public int getMaxPassengers() {
              return this.maxPassengers;
       public void board(int boardingPassengers) {
              if ( this.passengerCount + boardingPassengers <= maxPassengers) {</pre>
                      this.passengerCount += boardingPassengers;
              }
       }
       public void leave(int leavingPassengers) {
              if ( this.passengerCount - leavingPassengers >= 0 ) {
                      this.passengerCount -= leavingPassengers;
              }
       }
       public int getPassengerCount() {
              return this.passengerCount;
       public void transferTo(Spaceship newShip) {
              if (newShip == null)
                      return;
              if (this.getPassengerCount() + newShip.getPassengerCount() <= newShip.getMaxPassengers()) {</pre>
                      newShip.board(this.getPassengerCount());
                      this.leave(this.getPassengerCount());
              }
       }
       // Method toString() will automatically be called when the object is called
       // inside a System.out.println() instruction.
       public String toString() {
              String out = "Ship name: " + this.getShipName() + "\n" +
                            "Passenger count: " + this.getPassengerCount() + "\n" +
                            "Max passengers: " + this.getMaxPassengers();
              return out;
       }
}
```

## Computer Science II – Prepa Tec Campus Eugenio Garza Lagüera Activity 6: Spaceship

Name:	nip Student Id:
Name: Student ld:	Student ld:
Name:	Student ld:
<pre>Spaceship s1 = new Spaceship("My Ship", 20); Spaceship s2 = s1; s1.board(10); s2.board(10);  System.out.println(s1); System.out.println(s2);</pre>	
<pre>String shipName; int passengerCount; Spaceship s1 = new Spaceship("Millenium Falcon", 20); s1.board(10); shipName = s1.getShipName(); System.out.println(shipName); passengerCount = s1.getPassengerCount(); System.out.println(passengerCount);</pre>	
<pre>String shipName; int passengerCount; Spaceship s2 = new Spaceship("X-Wing", 2);  passengerCount = s2.getPassengerCount(); System.out.println(passengerCount); s2.board(1); passengerCount = s2.getPassengerCount(); System.out.println(passengerCount); s2.board(1); passengerCount = s2.getPassengerCount(); System.out.println(passengerCount);  shipName = s2.getShipName(); System.out.println(shipName); s2.setShipName("X Wing"); shipName = s2.getShipName(); System.out.println(shipName); shipName = s2.getShipName();</pre>	
<pre>Spaceship Hyperion = new Spaceship("", 2500); Hyperion.setShipName("Hyperion"); Hyperion.board(450); Hyperion.board(3655);  Spaceship TheMilano = new Spaceship("The Milano", 10); TheMilano.setShipName("Milano");  Hyperion = TheMilano; TheMilano.board(1); Hyperion.board(4);  System.out.println(TheMilano); System.out.println(Hyperion);</pre>	

```
Spaceship Hyperion = new Spaceship("", 2500);
Hyperion.setShipName("Hyperion");
Hyperion.board(450);
Hyperion.board(3655);
Spaceship TheMilano = new Spaceship("The Milano", 10);
TheMilano.setShipName("Milano");
Hyperion = TheMilano;
TheMilano.board(1);
Hyperion.board(4);
System.out.println(TheMilano);
System.out.println(Hyperion);
Spaceship enterprise = new Spaceship("Enterprise",100);
Spaceship enterprise2;
Spaceship enterprise3;
enterprise2 = enterprise;
enterprise2.board(10);
enterprise.board(50);
enterprise.board(50);
enterprise2 = new Spaceship("Enterprise 2", 50);
enterprise3 = enterprise;
enterprise3 = new Spaceship("Enterprise 3", 500);
System.out.println(enterprise);
System.out.println(enterprise2);
Spaceship Normandy, Andromeda;
Normandy = new Spaceship("Normandy", 30);
Andromeda = new Spaceship("Andromeda", 500);
Andromeda = Normandy;
Normandy.setShipName("SSV Normandy SR-1");
Normandy.board(10);
Andromeda.board(10);
Andromeda.setShipName("Andromeda ISS");
Andromeda.board(20);
System.out.println(Andromeda);
System.out.println(Normandy);
Spaceship Voyager1, Apollo;
Voyager1 = new Spaceship("Voyager 1", 5);
Apollo = new Spaceship("Apollo 11", 10);
Voyager1.board(3);
Voyager1.transferTo(Apollo);
Voyager1.board(5);
Voyager1.transferTo(Apollo);
Voyager1.board(2);
Voyager1.transferTo(Apollo);
System.out.println(Voyager1);
System.out.println(Apollo);
```