

# Class Diagram: Part 2

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## ASSOCIATION (INHERITANCE)

### public class CargoShip

#### PROPERTIES

```
boolean contraband;
int numberOfcranes;
int cargoValue;
String cargoType;
String loadingMethod;
```

#### CONSTRUCTORS

```
public CargoShip()
public CargoShip(boolean contraband,
    int numberOfcranes, int cargoValue,
    String cargoType, String loadingMethod)
public CargoShip(boolean floating, double
length,
    double width, double height, int capacity,
    String origin, String name,
    String departureDate, String arrivalDate,
    String departingPort, String arrivalPort,
    String owner, boolean contraband,
    int numberOfcranes, int cargoValue,
    String cargoType, String loadingMethod)
```

#### METHODS

```
public boolean isContraband()
public int getNumberofcranes()
public int getCargoValue()
public String getCargoType()
public String getLoadingMethod()

public void setContraband(boolean contraband)
public void setNumberofcranes(int
numberOfcranes)
public void setCargoValue(int cargoValue)
public void setCargoType(String cargoType)
public void setLoadingMethod(String
loadingMethod)

public void print()
```

### public class CruiseShip

#### PROPERTIES

```
double ticketPrice;
int numberOfRooms;
String buffetMenu;
String[] services;
String cruiseType;
```

#### CONSTRUCTORS

```
public CruiseShip()
public CruiseShip(double ticketPrice,
    int numberOfRooms, String buffetMenu,
    String[] services, String cruiseType)
public CruiseShip(boolean floating, double
length,
    double width, double height, int capacity,
    String origin, String name,
    String departureDate, String arrivalDate,
    String departingPort, String arrivalPort,
    String owner, double ticketPrice,
    int numberOfRooms, String buffetMenu,
    String[] services, String cruiseType)
```

#### METHODS

```
public boolean isContraband()
public int getNumberofcranes()
public int getCargoValue()
public String getCargoType()
public String getLoadingMethod()

public void setContraband(boolean contraband)
public void setNumberofcranes(int
numberOfcranes)
public void setCargoValue(int cargoValue)
public void setCargoType(String cargoType)
public void setLoadingMethod(String
loadingMethod)

public void print()
```

### public class Ship

#### PROPERTIES

```
private boolean floating;
private double length;
private double width;
private double height;
private int capacity;
private String name;
private String origin;
private String departureDate;
private String arrivalDate;
private String departingPort;
private String arrivalPort;
private String owner;
```

#### CONSTRUCTORS

```
public Ship()
public Ship(boolean floating, double length,
    double width, double height, int capacity,
    String origin, String name, String
departureDate,
    String arrivalDate, String departingPort,
    String arrivalPort, String owner)
```

#### METHODS

```
public boolean isFloating()
public double getLength()
public double getWidth()
public double getHeight()
public int getCapacity()
public String getName()
public String getOrigin()
public String getDepartureDate()
public String getArrivalDate()
public String getDepartingPort()
public String getArrivalPort()
public String getOwner()

public void setFloating(boolean floating)
public void setLength(double length)
public void setWidth(double width)
public void setHeight(double height)
public void setCapacity(int capacity)
public void setName(String name)
public void setOrigin(String origin)
public void setDepartureDate(String departureDate)
public void setArrivalDate(String arrivalDate)
public void setDepartingPort(String departingPort)
public void setArrivalPort(String arrivalPort)
public void setOwner(String owner)

public void print()
```

ASSOCIATION

### public class Driver

#### PROPERTIES

```
public Driver()
```

#### METHODS

```
public static void main(String[] args)
```

ASSOCIATION