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# Selected files

## 4 printable files

```
CS5800_HW1\CS5800_Q3\src\com\cpp\cs5800q3\CS5800_Q3.java
CS5800_HW1\CS5800_Q3\src\com\cpp\cs5800q3\Ship.java
CS5800_HW1\CS5800_Q3\src\com\cpp\cs5800q3\CargoShip.java
CS5800_HW1\CS5800_Q3\src\com\cpp\cs5800q3\CruiseShip.java
```

#### CS5800\_HW1\CS5800\_Q3\src\com\cpp\cs5800q3\CS5800\_Q3.java

```
package com.cpp.cs5800q3;
2
   public class CS5800_Q3 {
4
5
        public static void main(String[] args) {
            Ship[] ships = new Ship[3];
6
8
            ships[0] = new Ship("Ship Brandon", "2025");
9
            ships[1] = new CruiseShip("Disney Cruise", "2012", 3005);
            ships[2] = new CargoShip("Carry Cargo Ship", "1900", 150000);
10
11
12
            for (Ship s: ships) {
13
                s.print();
14
15
16
17
18
19
```

## CS5800\_HW1\CS5800\_Q3\src\com\cpp\cs5800q3\Ship.java

```
package com.cpp.cs5800q3;

public class Ship {
    private String name;
    private String year;
```

## CS5800\_HW1\CS5800\_Q3\src\com\cpp\cs5800q3\CargoShip.java

public String getName() {

this.name = name;

public String getYear() {

this.year = year;

public void print() {

return year;

public void setName(String name) {

public void setYear(String year) {

return name;

```
package com.cpp.cs5800q3;

public class CargoShip extends Ship {

private int cargoCapacity;

public CargoShip(String name, String year, int cargoCapacity) {
    super(name, year);
    this.cargoCapacity = cargoCapacity;
```

System.out.println("\nShip name: " + name + " | " + "Year Built: " + year);

12

13

14

15

16 17

18 19

20 21

22 23

2425

26

27

28

29 30

313233

}

}

}

```
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 10
 11
 12
          public int getCargoCapacity() {
 13
              return cargoCapacity;
 14
 15
          public void setCargoCapacity(int cargoCapacity) {
 16
 17
              this.cargoCapacity = cargoCapacity;
 18
          }
 19
          @Override
 20
          public void print() {
 21
              System.out.println("Cargo Ship name: " + getName() + " | " + "Cargo Capacity (tonnage): " + cargoCapacity);
 22
 23
 24
 25
 26
 27
```

### CS5800\_HW1\CS5800\_Q3\src\com\cpp\cs5800q3\CruiseShip.java

```
package com.cpp.cs5800q3;
2
   public class CruiseShip extends Ship {
4
        private int maxNumOfPassengers;
6
7
        public CruiseShip(String name, String year, int maxNumOfPassengers) {
            super(name, year);
8
9
            this.maxNumOfPassengers = maxNumOfPassengers;
10
        }
11
12
        public int getMaxNumOfPassengers() {
13
            return maxNumOfPassengers;
14
        }
15
        public void setMaxNumOfPassengers(int maxNumOfPassengers) {
16
            this.maxNumOfPassengers = maxNumOfPassengers;
17
18
```