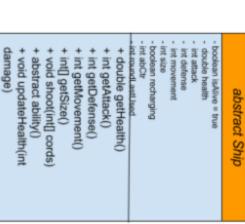
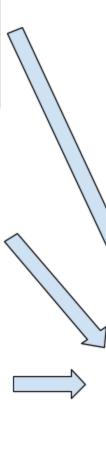
Larry Wong, Richard Wong, Stefan Tan

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superclass of class Submarine, Destroyer, Abstract Class Ship is the Aircraft Carrier Cruiser, Battleship, and



each subclass of Ship. method is different for class Ship. The abstract variables and methods of Ships inherit the instance The subclasses of class



Destroyer

Submarine

- int attack = 30 - double health = 60 int movement = 8 int defense = 30 - int size = 2

int attack = 50

double health = 100

int size = 3

int movement = 5 int defense = 20

int defense = 5

int movement = 6

 int attack = 60 double health = 50

int size = 3

opposingGrid) + void ability(Obj

⇒ The Submarine has no

+ void ability()

abilities

wisely.

once every game. Use it

The destroyer can shoot twice ⇒ The Cruiser increases its + void ability()

Battleship

- int attack = 50 double health = 125
- int defense = 40
- int movement = 4

- int size = 4

defense => The Battleship increases + void ability()

Aircraft Carrier

- double health = 150
- int attack = 40
- int movement = 4 int defense = 10
- int size = 5
- one or more opponent vessel =>returns a row number with + int ability(Obj opposingGrid)

PlayerGrid

- ArrayList[][] field
- ArrayList[][] markup
- int[][] oppShots
- String name

- + boolean placeShip(Obj ship, int[] cords, String direction)
- + void setName(String nam)
- + String printField()
- + String printMarkup()
- + int[][] volley(Obj[] ships)
- + void markMiss(int[] cords)
- + void markHit(int[] cords)
- + void markClear()
- + void getShots(int[] cords, Obj otherField)
- + void afterVolley(Obj[] ships)

Class PlayerGrid determines the changes of the variables of the subclasses of Ship such as whether or not a shot hit a ship.