FIRE

```
public String toString();
public String getAllPassesOnAllIslands();
public String findPassLocation(intcd);
public String viewAPass(int cd);
public int getIslandNumber(String isl);
public String getAllPassesOnIsland(String isl);
public boolean canTravel(int cdId, String ferCode);
public String travel(int pPassId, String ferCode);
public void topUpCredits(int id, int creds);
public void convertPoints(intid);
```

ResortUI

```
private Scanner reader = new Scanner(system.in);
private FIRE fortunate = new Resort('''"Fortunate Islands");

private void runUI()
private it getOption()
private void listAllResort()
private void listAllPasses()
private void listOneIsland()
private void findLocationOfPass()
private void tryTravel()
private void travelNow()
private void viewPass()
private void updateCredits()
private void convertPts()
public static void main(String[] args)
```

Tester

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

Resort

```
private String location;
private ArrayList <Pass> PassList = new ArrayList <Pass>();
private ArrayList <Island> IslandList = new ArrayList <Island>();
private ArrayList <Ferry> FerryList = new ArrayList <Ferry>();
private String ResortName;

public Resort(String loc, String ResortName)
public String toString()
public String getAllPassesOnAllIslands()
public String findPassLocation(int cd)
public String viewAPass(int cd)
public int getIslandNumber(String isl)
public String getAllPassesOnIsland(String isl)
public boolean canTravel(int cdId, String ferCode)
public String travel(int pPassId, String ferCode)
public void topUpCredits(int id, int creds)
public void convertPoints(int id)
private void loadPasses()
private void loadIslandsAndFerries()
private Pass getPass(int id)
private Island getIsland(String islandName)
private Ferry getFerry(String fer)
```

Ferry

```
private String JourneyCode;
private Island SourceIsland;
private Island DestinationIsland;
private ArrayList <Pass> PassOnFerry = new ArrayList <Pass>();

public Ferry(String JourneyCode, Island SourceIsland, Island DestinationIsland)
public String getJourneyCode()
public Island getSourceIsland()
public Island getDestinationIsland()
public boolean PassCanTravel(Pass EnterPass)
public String Traveling(Pass p)
public String ArrayToString()
public String toString()
```

Island

```
private int IslandID;
private String IslandName;
private int IslandRating;
private int IslandCapacity;
private ArrayList <Pass> Passes = new ArrayList <Pass>();

public Island(int IslandID, String IslandName, int
IslandRating, int IslandCapacity)
public Island(ArrayList Passes)
public ArrayList getPasses()
public int getIslandID()
public String getIslandName()
public int getIslandRating()
public int getIslandCapacity()
public void enter(Pass InsertPass)
public void leave(Pass InsertPass)
public String CapacityLimit()
public String CurrentPasses()
public String PassDetails(int passID)
public boolean PassOnIsland(int passID)
public String toString()
public String toString1()
```

TouristPass

```
private String citizenship;

public TouristPass(int ID, String Name, int LuxRating, int Cred, String citizenship)
public void UseFerry()
public String getCitizenship()
public String toString()
```

BusinessPass

```
private int LoyaltyPoints;

public BusinessPass(int ID, String Name, int LuxRating)
public void UseFerry()
public void ConvertLtoC()
public int getLoyaltyPoints()
public String toString()
```

EmployeePass

```
private int employeeNumber;
private String jobDescription;
private int journeyScore;

public EmployeePass(int ID, String Name, int employeeNumber, String jobDescription, int journeyScore)
public void UseFerry()
public String toString()
```

Pass

```
private int PassID;
private String PersonsName;
private int LuxuryRating;
private int Credit;
private int JourneyPoints;

public Pass(int PassID, String PersonsName, int LuxuryRating, int Credit)
public Pass()
public int getPassID()
public String getPersonsName()
public int getLuxuryRating()
public int getJourneyPoints()
public int getCredit()
public void setCredit(int C)
public void addCredit(int Deposit)
public void minusCredit(int Withdraw)
public void UseFerry()
public void JtoC()
public String toString()
```

PassTester

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