

Hi , this is bejeweled game replica made by me , MUSA ENES ERKUVAN

I have 6 interfaces , 17 classes ;

GameGrid : an abstract class , where we construct each jewel

GameGrid implements 3 interfaces;

1 CrushJewels : an interface , which contains crush methods

2 CheckCoord : an interface , which contains methods for which type for jewel to be crushed

3 SlideJewels : an interface , which contains methods for sliding jewels after crushing

3 classes extends GameGrid;

1 NormalCrush : overrides CrushJewels methods , decides which parameters goes to crush methods

2 WildCrush: overrides CrushJewels methods , decides which parameters goes to crush methods

3 MathCrush : overrides CrushJewels methods , decides which parameters goes to crush methods

These 3 subclass of Gamegrid are superclasses of Jewel type classes

JewelW: subclass of WildCrush , includes constructor from GameGrid , includes a String for which method to run

JewelS: subclass of NormalCrush , includes constructor from GameGrid , includes a String for which method to run

JewelT: subclass of NormalCrush , includes constructor from GameGrid , includes a String for which method to run

JewelD: subclass of NormalCrush , includes constructor from GameGrid , includes a String for which method to run

JewelPlus: subclass of MathCrush , includes constructor from GameGrid , includes a String for which method to run

JewelMinus: subclass of MathCrush , includes constructor from GameGrid , includes a String for which method to run

JewelPerpendicular: subclass of MathCrush , includes constructor from GameGrid , includes a String for which method to run

JewelSlash: subclass of MathCrush , includes constructor from GameGrid , includes a String for which method to run

JewelReverseSlash: subclass of MathCrush , includes constructor from GameGrid , includes a String for which method to run

Main: We give instances to objects and create other variables (lists etc.) here and then give it as parameter to PlayGame class object

PlayGame: includes StartGame and GridOutPut methods , StartGame method is doing all the big play and call other methods , Gridoutput method is just for adding the gamegrid's last version to output list

PlayGame implements 3 interfaces;

Reader: an interface , contains a method for reading txt files

Writer: an interface, writing an output to a txt file

GridMaker: makes an object oriented jewel 2d array based on Reader interface output

Player: includes attributes such as , points and name , also implements Comparable

ActivePlayerCheck: a normal class which Player class extends , contains 2 method ;

1 is for deciding an Active Player , if its a new player or existing player on leaderboard txt

2 is for using sort and binary methods so we can add their results to monitoring txt

As for summary ,

Main class creates instances for objects

Game object calls Read and gather data

Game object calls Gridmaker for making an 2d array of jewel objects

We create a player object and decides who he/she is

Game object calls StartGame method

This method gets commands txt args as input and calls CheckCoord interface

This interface decides which jewel type and which method it uses so it creates a coordinate couples based on that

After it calls crush methods from CrushJewels interface

CrushJewels interface has 2 methods

1 method is an empty body and its getting overrides from 3 class NormalCrush, WildCrush, MathCrush

Which our interface call this method firstly

Each jewel gets decided which coordinate to terminate and be crushed there and send to second crush method

Second crush method has default body and actually crushes jewels based on that coordinates

After that StartGame method calls for Slide method from SlideJewels interfaces and its slides jewel

After that we call gridoutput method in PlayGame class

Lastly we call Sortandbinary methods and StartGame methods ends

Game object calls write method from Writer interface and out code went to an end.

