Assignment 4

Report

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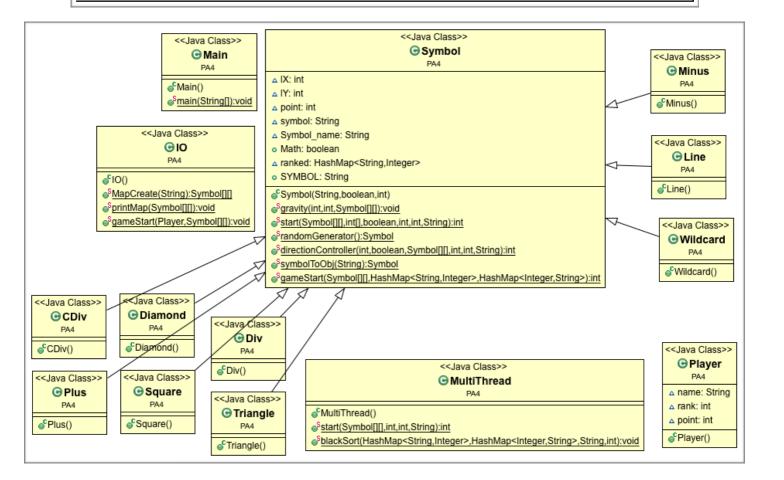
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I have explained my code with Javadoc in my code"

For appending a new Jewel

Add it to Symbol.symbolToObject
Add it to Symbol.randomGenerator
Add it to MultiThread.start
Create a constructor in the new Jewel and override at the Symbol constructor

Thats all.

Explaining Of The Design

My all jewels are extending from sybmol class.

My data Structure

In my Main[][] map it is storing objects. All objects are in Symbol type. All jewels are extending from Symbol class. They all override same constructor. In constructor it will be assign all jewels individual data(String symbol,boolean Math,int point). Its; first upper char like "D", if it is math symbol or not, how much point it give.

İn Hashmap<String,Integer> ranked; i store players data(name,point).

My Alghoritm

Create map with IO.MapCreate
Create Hashmaps
Read leaderBoard.txt and add data to hashmap.
Print map using IO.printMap
Start the game using Symbol.gameStart

If test_case.txt exists read each line for execution Else read from keyboard for execution

Execution

If input is "E";

write new player to leaderBoard.txt
Output the rank and compare etc. Using MultiThread.blackSort

it will find the rank and the difference bettween nearest players. print the result add player to hashmap

Else

start the frontStart using MultiThred.start

determine which object is it then start the game using Symbol.start

for each direction control it using directionController

if the Controlling will be applying about type look to type if the Controlling will be applying about firstCaseLetter look to it if found apply gravity to that locations and give points for each delete the location given and shift from up to down to that location and give point and assign random jewels to the top using randomGenerator

Print the total point and the map continue it while input is not "E";