Woo

INSTANCE VARIABLES

ArrayList<String> images // paths of a bunch of images of cards

ArrayList<Integer> positions // [xcor,ycor] of each picture in images

ArrayLlst<Integer> attackingCards // tracks which cards are attacking/being attacked

Plmage bg; // background image

boolean bover = false; // true whenever the mouse is over an image

boolean locked = false; // true if the image is being dragged

ArrayList<PImage> image1 = new PImage [images.length];

float newx, newy; - // new coordinates of mouse after the dragging

int whichImage; - // which image the mouse is currently over

boolean p1turn=true // true when first player's turn, false otherwise

boolean p2turn=false // opposite of p1turn

Player nicolas // bottom player

Player chris // top player

boolean spellMode // checks if the user is going to use a spell

int turnCounter // counts number of turns

boolean printEndOnce // used for printing last statement only one time in draw

METHODS

void setup() -sets up images and positions

void draw() - sets up background, border squares, images

void mousePressed() - changes locked based on bover

void mouseDragged() - draws the reprinting of the moving image, also adds a green border

void mouseReleased() - sets locked back to false when the user stops dragging

void mouseClicked() - adds to attackingCards and puts a border on selected cards, also used for ending turn and loading weapon

void keyPressed() - used to execute actual attack sequence when attackingCards is full

void printCurrentHand1() - prints currentHand on first turn for nicolas

void printCurrentHand2() - prints currentHand on first turn for chris

void printCurrentHanda() - prints currentHand on non-first turn for nicolas, having the first two methods only ran into some NullPointerExceptions

void printCurrentHandb() - prints currentHand on non-first turn for nicolas, see printCurrentHanda

void fill() - fills each deck with basic monster cards

int cardOver() - returns index of card in images (arrayList) that is over a specific monster slot, 1 method for each slot

int cardOverWep() - returns index of card in images (arrayList) that is over the weapon slot, 1 method for each slot

void processCards1() - processes monsters on nicolas's side, fills nicolas.monsters with the cards over the slots

void processCards2() - processes monsters on chris's side, fills chris.monsters with the cards over the slots

void displayMonsters1() - displays nicolas's monsters after they are registered, not draggable so they don't belong in the other display mechanism

void displayMonsters2() - displays chris's monsters after they are registered, not draggable so they don't belong in the other display mechanism

void fillAttackingCard1() - fills first attacking slot, card will have a red border on the field void fillAttackingCard2() - fills second attacking slot, card will have a green border on the field void fillSpellCard() - fills attacking spell slot, card will have a yellow border on the field

Card attackMonster(Card attacker, Card receiver) - changes HP and mana based on attacker, Card returned is what the receiver becomes after the attack

void loadWeapon() - loads weapon for each player, 1 for each player

void pallyPower() // paladin Hero Power

void shamanPower() // shaman Hero Power

Player

INSTANCE VARIABLES

- int currentHP // current HP
- int maxHP // max HP (so effects won't heal past the max)
- int currentMP // current MP a player has this turn
- int maxMP // max MP a player has for the game (increases each turn)
- int deckDamage //damage taken if there are no more cards to draw
- ArrayList<Card> currentHand // current hand of player
- ArrayList<Card> monsters // monster cards currently on the board
- ArrayList<Card> deck // deck of cards for the user
- Card weapon //current weapon that is equipped
- boolean usedHeroPower // checks if HeroPower has already been used this turn

METHODS

Player() - sets currentHP to 30, maxHP to 30, current MP to 0, maxMP to 1

int size() - returns size of currentHand

void drawCard // draws a card from deck

void addMonster // add a monster to the board

void incHP // healing player

void decHP // player takes damage

void incMP // increase maxMP each turn

void decMP // decrease currentMP when a card is placed

String hpLine() - returns currentHP / maxHP

String mpLine() - returns currentMP / maxMP

String toString() - returns hp,mp and weapon data of player

Card

INSTANCE VARIABLES

Plmage picture - loaded picture of card

String path - path of card

int value - damage/restore number of card

int type - monster/spell/weapon

int curentHP - a card's current health

int maxHP - a card's max health

int cost - mana cost

boolean shown - only shows your hand if it is your turn

Boolean attackedthisTurn - checks if card attacked this turn already

METHODS

Card (PImage portrait, String paf) - initializes HP, cost, etc., based on paf

String toString() - prints HP, MP, and name of card

void incHP(int value) // increases HP by value

void decHP(int value) // decreases HP by value

void attackMonster() // monster attacking a monster

void attackPlayer() // monster attacking a player