Joseph Allen

Jallen6@ramapo.edu

Lisp Manual

Bug Report:

Builds get added to the pile as a build

doCycle doesn’t end until the hands are nil and they attempt to play

Cards sometimes get added to pile in a list, which breaks the scoring

Feature Report:

Non-Implemented:

Build Owners

Build enforcement rules

Ai making builds

Ai capturing sets

Implemented:

A way for the Ai to find sets it can make, however the AI does not sue the knowledge

Data-Structures

Log:

October 3rd- 4th:

Finding and setting up a lisp environment

October 5th:

Added ability to get Yes or no input from user (1 hour)

October 6th:

Multiple failed attempts to use lisp for anything productive and decided to do generic practice to reinforce knowledge of lisp syntax, no work was saved from the project

October 7th

Implemented ability to check scores and see if anyone won (.75 hours)

Coin flip implemented (1 hour)

Created skeleton of round loop, which includes coin flip, and score check (.1 hour)

Able to generate a deck of cards in sequential order (.2 hours)

This was as a list of list symbols

October 8th

Can deal four cards to each hand and remove them from the deck (.5 hours)

Created function to print out the board (.5 hours)

Able to prompt the user for the action they want to take and can validate them (1 hour)

October 9th:

Rewrote the main loop to allow for it to be recursively called (2 hours)

Implemented trailing for the human player (.75 hours)

October 11th:

Program is able to shuffle the deck after it is created (1 hours)

Able to trail any card in the hand instead of the first (1.5 hours)

This required use of two helper functions, 1 to get the numeric input and validate it, and the other to remove the card from the hand

Can get a card’s symbol (.1 hour)

Create skeleton for capturing (getting the user input) (.5 hour)

October 12th:

Fixed getNumericInput not validating in some cases, mainly strings (.5 hours)

Added a function to find and remove matching cards (1.5 hours)

Added a doPlayerMove helper function which is responsible for managing the pile and is a helper function to doCycle (.25 hours)

October 13th:

Able to trail from both hands (.25 hours)

Added check for empty hands, which will allow for card re dealing (.2 hours)

Fixed an infinite loop which occurred if the hand contained a card of nil before being redealt (.5 hours)

October 14th:

Program is able to read in a save file (.75 hour)

Created functions to parse the data that is loaded in (.2 hours)

Able to load into the board with the save data (1.5 hours)

October 15th:

Converted cards and all functions to uses symbols instead of lists (2 hours)

October 16th:

Program prompts again on invalid input (.2 hours)

Changed user input to be one higher than the index for usability (.2 hours)

Added helper functions to convert symbol to number and back again (1 hour)

Able to find sets programmatically in ideal circumstances (2 hours)

October 17th:

Fixed formatting of the sets (1 hour)

October 18th

Updated return values of multiple functions to be consistent (1.25 hours)

Added Skeletons for set capture functions (1 hour)

October 19th

Display the menu before each turn, and have it be different for each player (.75 hours)

Program can exit from user choice (.1 hours)

Program can open and write some data to the save file (1 hour)

Able to get multiple inputs from the user (1 hours)

Able for human to create a build (1 hour)

October 20th:

Builds remove the cards which were consumed in the build (2 hours)

Able to check if a card is in a list (.1 hour)

Able to get indices that are not selected for a table (1 hour)

Able to make a build of N cards (1.25 hours)

Can get the card Symbol of a build (2 hours)

Can now capture builds (.75 hours)

October 21st:

Changed save file format (.2 hours)

Added all scoring helper functions (1.5 hours)

Tournament now properly loops for new rounds (.5 hours)

Reorganized the file and added comments per the coding standards (2.25 hours)

October 22nd:

Flip coin returns numeric instead of symbol (.25 hours)

Fixed bug in doCycle which caused the hands to switch in certain conditions (1 hour)

All info is added to the saveFile