Python – RPSLS

Purpose

This lab was designed to teach you how to use decision structures to play a game.

Description

Rock-paper-scissors-lizard-Spock (RPSLS) is a variant of Rock-paper-scissors that allows five choices. Each choice wins against two other choices, loses against two other choices and ties against itself. Much of RPSLS's popularity is that it has been featured in 3 episodes of the TV series "The Big Bang Theory". Visit this link for a complete description of RPSLS and how to play the game.

"Scissors cuts paper, paper covers rock, rock crushes lizard, lizard poisoins Spock, Spock smashes scissors, scissors decapitates lizard, lizard eats paper, paper disproves Spock, Spock vaporizes rock, and as it always has, rock crushes scissors."

While Rock-paper-scissor-lizard-Spock has a set of ten rules that logically determine who wins a round of RPSLS, coding up these rules would require a large number (5x5=25) of if/elif/else clauses in your mini-project code. A simpler method for determining the winner is to assign each of the five choices a number:

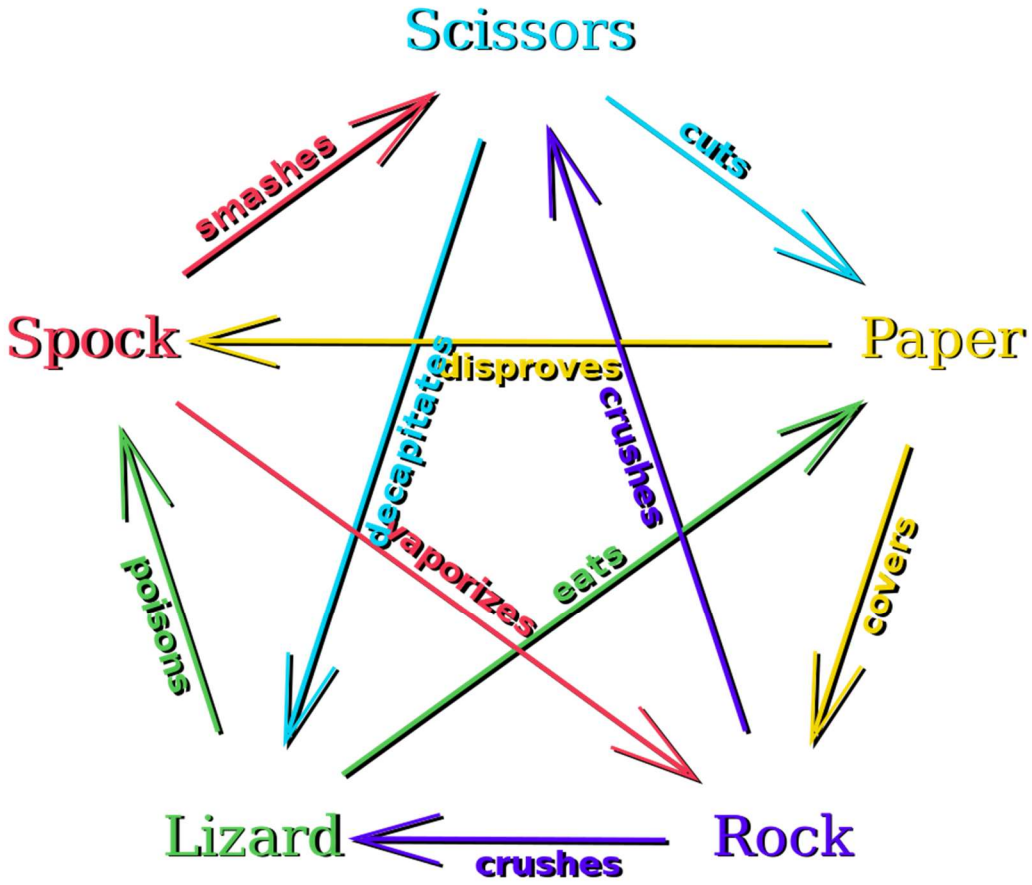
- 0 — rock
- 1 — Spock
- 2 — paper
- 3 — lizard
- 4 — scissors

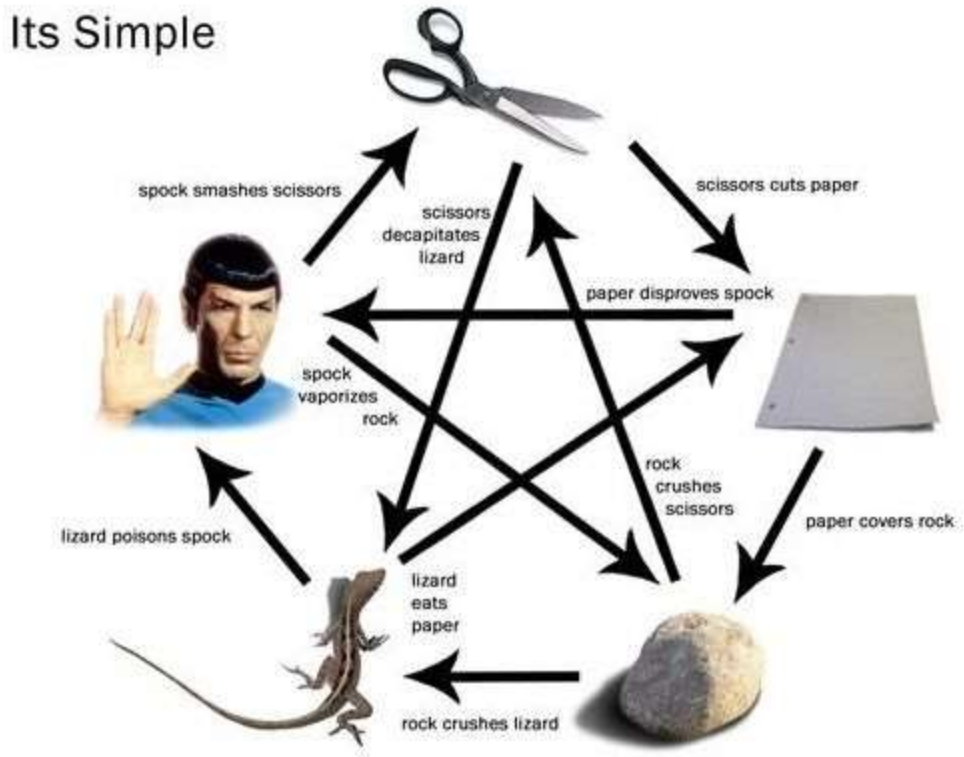
In this expanded list, each choice wins against the preceding two choices and loses against the following two choices.

Help w/ randomization:

random.randrange(number) -> returns a pseudorandom number from zero inclusive to number exclusive

random.randrange(10) -> returns a random number from [0,9]





Program Shell

rpsls.py shell provided for you

Sample Execution

```
Enter your choice of rock, paper, scissors, lizard, Spock: rock
Playa chooses  rock
Computer chooses  scissors
Playa wins!!

Enter your choice of rock, paper, scissors, lizard, Spock: paper
Playa chooses  paper
Computer chooses  scissors
Computer wins sucka!!
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