

Flashcards

Implement a flashcard program for studying. You are given flashcards for studying Spanish.

Requirements

- Read in the flash card file. Each line contains the front and back of a card going from English to Spanish. (Tab delimited!)
- Generate cards going from Spanish to English
- Shuffle the cards when you start (Hint: use `random.shuffle`)
- Allow the user to list all cards
- Allow the user to practice all the cards
- When practicing, report how many questions the user gets correct

High-level algorithm (main)

cards = read in the cards

shuffle the cards

command = ask the user whether to list the cards or practice

if command == "p":

 practiceAll(cards)

elif command == "l":

 listAll(cards)

else:

 report an unrecognized command

practiceAll algorithm

```
practiceAll(cards)
```

```
    totalCorrect = 0
```

```
    for each card in cards:
```

```
        if askCard(card) == True:
```

```
            totalCorrect = totalCorrect + 1
```

```
    report how many the user got right
```

askCard algorithm

askCard(card):

pretty print the front of the card

ask the user for their reponse

Return True if the response matches the back of the card

Otherwise return False

listAll algorithm

```
listAll(cards):
```

```
    for each card in cards:
```

```
        printCard(card)
```

```
printCard(card):
```

```
    Pretty print both the front and back of the card
```

readCards algorithm

readCards(filename):

- open the file given by filename
- create an empty list of cards

for each line in the file:

- clean the line (strip the whitespace from the front and back with strip)
- split the line based on tab (“\t”) to get the front and back of the card
- add the card to the card list
- add the reverse of the card to the card list too

return the cards

NOTE: We will use a list of lists to store the cards. Each card is a list containing two strings which represent the front and the back