Junior Knights Week 9 Review Problems

Part A: Password Validation (securepassword.py)

Write a program that helps users create a secure password by ensuring that their first name or last name is not part of the password. Ask the user for their first name and last name. Then, ask the user to create a password. If the password is invalid, ask the user to try again until a valid password is entered.

Sample Program Run
```
What is your full name?
> John Doe
Create password:
> jOHnSUCKS68!!
Your password shouldn't contain your name OR birthdate! Please
try again!
Create password:
> doEBRO45!?
Your password shouldn't contain your name OR birthdate! Please
try again!
> StrongPass#2025
Password successfully created!
```

Part B: Second Largest Number (secondnum.py)

You are given a list of numbers, and you need to find the second-largest number in the list. Assume that the list has at least two distinct numbers.

Sample Program Run
```
nums = [12, 24, 56, 78, 90]
result = 78

nums = [56, 31, 22, 73, 3]
result = 56
```

Part C: Movie List Edit (movies2.py)

Create a movie menu that allows a user to add individuals attending a movie, delete individuals attending a movie, search for a particular person, and print out all people currently going to the movie when the list is closed.

Sample Program Run

```
Please select one of the following menu options.
1. Add a person to the movie list.
2. Delete a person from the movie list.
3. Search for a person in the movie list.
4. Print out all people currently going to the movie.
5. Close the list.
> 1
Who should we add to the list?
> Sarah

Please select one of the following menu options.
1. Add a person to the movie list.
2. Delete a person from the movie list.
3. Search for a person in the movie list.
4. Print out all people currently going to the movie.
5. Close the list.
> 3
Who do you want to check to see is in the list?
> Jimmy
Sorry, Jimmy is NOT on the movie list right now.

Please select one of the following menu options.
1. Add a person to the movie list.
2. Delete a person from the movie list.
3. Search for a person in the movie list.
4. Print out all people currently going to the movie.
5. Close the list.
> 3
Who do you want to check to see is in the list?
> Sarah
Great, Sarah is going to the movie so far.

Please select one of the following menu options.
1. Add a person to the movie list.
2. Delete a person from the movie list.
```

3. Search for a person in the movie list.
4. Print out all people currently going to the movie.
5. Close the list.
> 4
Here is the current list of people going to the movie: ['John', 'Sarah']

Please select one of the following menu options.
1. Add a person to the movie list.
2. Delete a person from the movie list.
3. Search for a person in the movie list.
4. Print out all people currently going to the movie.
5. Close the list.
> 5
Here is the final list of people going to the movie: ['John', 'Sarah']