HW1

You do not need to consider exceptions that are not mentioned in this document.

You have to print exactly same as sample outputs.

1. Phone Book

1-1. constraints

- Always show prompt CP-2017-12345> (your student ID) before each task.
- In the initial state, when the user inputs empty line (just \n), it shows information about choices.
- In the initial state, when the user inputs exit, end the program.
- When each menu is finished, it returns to the initial state to wait another input of the user.

1-2. sample input

1-3. sample output

Phone Book
1. Add person
2. Remove person
3. Print phone book

2. Add person

2-1. constraints

- User can add person from the Add person menu.
- In the initial state, when the user inputs 1, it enters the Add person menu and shows information about choices.
- Each person stores his/her first, last name and phone number.
- There must be a space between the first and last names.
- User inputs only 02-xxxx-xxxx or 010-xxxx-xxxx format as phone number.
- Person who is categorized in Work stores his/her team.
- Person who is categorized in Family stores his/her birthday.
- User inputs only YYMMDD format as birthday.
- Person who is categorized in Friend stores his/her age.
- After the task is done, print Successfully added new person.

2-2. sample input

1

2-3. sample output

Select Type
1. Person
2. Work
3. Family
4. Friend

3. Remove person

3-1. constraints
• User removes information of person from the Remove person menu.

• In the initial state, when the user inputs 2, it enters the Remove person menu and asks index of person to remove.

• example of index policy
  • In the phone book with only one person, if user remove a person whose index is 0 and adds another person, the index of new person becomes 0.

3-2. sample input

2

3-3. sample output

Enter Index of person:

3-4. sample input

10

3-5. sample output

• If the index is available
  
A person is successfully deleted from the Phone Book!

• If not
  
Person does not exist!

4. Print person

4-1. constraints

• User can print all the stored people and their information.

• In the initial state, when the user inputs 3, it prints information of all persons.

• People who have been removed should not print.

• Output format is
  
  • Person class
    
  {first name} {last name}_(phone number)
  
  • Work, Friend
    
  {first name} {last name}_(phone number)_(an addtional attribute)
  
  • Family
    
  {first name} {last name}_(phone number)_(birthday)_(D-day)

4-2. sample input

3

4-3. sample output
1. John Doe_010-1234-5678_Warriors
2. Stephen Curry_02-1234-5678_940101_261