

Create a Person ADT to meet these specifications.

ADT: Person

Description An object represents Person in history).

Constructor:

create: Creates a person with a first and last name, and a date of birth.

Add further functionality by overloading the constructor, as appropriate. **Access Functions:**

enterDiary: Allow the user to add the following:

a date to the dynamic array of Dates, together with a diary entry for that date.

enterAddress: Allow the user to add the following:

an address to a dynamic array of addresses, together with a date of occupancy.

showDiary: Prints out the entire or partial diary, either to the console or to a file.

showAddress: Prints out the address for a (range of) date(s), either to the console or to a file.

Use pointer arithmetic throughout. Feel free to add more functionality.

Pick a famous computer scientist from this list to construct a timeLine for (have at least 16 entries): G.W. Leibniz, Charles Babbage, Ada Lovelace, George Boole, Gottlob Frege, George Cantor, David Hilbert, Kurt Godel, Alan Turing, Claude Shannon, John Von Neumann, John Conway, or Donald Knuth.

Write a driver for your Person object that asks the user to enter their first and last name and date of birth. Then write a menu() function that will offer the user a sequence of options like this:

Hello, [first name, last name]. What would you like to do?

1. Quit and/or start a new person.
2. Enter a diary entry.
3. Display the diary.
4. Write the diary to a file.
5. Read diary entry(ies) from a file.
5. Enter a change of address.
6. Show the address for a (range of) date(s).