

Create a Timeline ADT to meet these specifications.

ADT: Timeline

Description An object represents another object's diary for Dates in history).

Constructor:

create: Reads dates and diary entries from a named object's file into a dynamic array of Dates and prompts the user to add new Dates/diary entries into Timeline.

Access Functions:

enterDiary: Allow the user to add a date to the dynamic array of Dates, together with a diary entry for that date.

showDiary: Prints out the entire or partial diary, 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.