

CIS 255 - Java Programming
Project #8
Lists & Maps

Name: _____

Date: _____

ID	Last Name	First Name	Middle Initial
16	Lincoln	Abraham	null
18	Grant	Ulysses	S
26	Roosevelt	Theodore	null
27	Taft	William	H
29	Harding	Warren	G

1. Create a President object class that has fields (member variables) equivalent to the field names in the table above (i.e. id, lastName, firstName, middleInitial). The President object should have manipulator and accessor methods for each field, and it should override the inherited Object class' toString() method.
2. Write a Java class Project8Q2, that has the method addPresident(id, lastName, firstName, middleInitial) which stores each president's information from the table above into the custom President object class created in Question #1 and then add the President object to a LinkedList. Create a second method showPresidents() that displays all the president's information in each element of the LinkedList using the toString() method for each President object. The main() method should call the addPresident() method for each president and call showPresidents() after all presidents have been added.
3. Write an interactive Java class Project8Q3, that will display a menu with the available commands 'G', 'D', and 'X'. If 'G' is selected, prompt the user for the ID of a president to display to the screen and then display the president's information. If 'D' is selected, display all the values in the LinkedHashMap to the user with their associated LinkedHashMap key. If 'X' is selected, exit the program. The class should have the method addPresident(id, lastName, firstName, middleInitial) which stores each president's information from the table above into a custom President object class and then into a LinkedHashMap using the ID of the president for the key. Create a second method showPresidents() that displays all the president's information in each element of the LinkedHashMap. Finally create a third method showPresident() that displays the president's information for the ID entered by the user.