You are tasked with designing a **Digital Library Management System** that maintains book records using a **linked list** and an **array**.

System Requirements:

- Each book in the library will be represented as a node in a linked list. Each node contains:
 - o Book ID (unique)
 - o Title
 - Author
 - o Year of Publication
 - Number of Pages
- An array will be used to store the Book IDs separately, allowing search (use binary search) for duplicate entries.

Functionalities to Implement:

1. Add Book:

- Prompt the user for a Book ID.
- Search the array to check if the ID already exists.
 - If the Book ID exists, display: "Book ID already exists! Cannot insert duplicate."
 - If the Book ID does not exist, take inputs from the user about book information (Title, author, Year of Publication, Pages) and insert the new book into the linked list in ascending order of page number. Also insert the new Book ID into the array.

2. Search Book:

- Prompt the user for a Book ID.
- First check if the Book ID is in the array.
- If found, traverse the linked list to retrieve and display the complete details of the book.
- If not found, display:"Book not found in the library."

3. Books published after certain year

- Take year input from users.
- Traverse the linked list and display all the book records those were published after that year.



Sample Input/Output Behavior:

- 1. Add Book
- 2. Search Book
- 3. Books published after certain year
- 4. Exit

Enter choice: 1

Enter Book ID: 102

Book not found in array. Adding new record...

Enter Title: Data Structures
Enter Author: Mark Allen

Enter Year: 2019 Enter Pages: 520

Record inserted successfully!

Enter choice: 1 Enter Book ID: 102

Book ID already exists! Cannot insert duplicate.

Enter choice: 2 Enter Book ID: 102

Book Found:

Title: Data Structures
Author: Mark Allen

Year: 2019 Pages: 520

Enter choice: 2 Enter Book ID: 205

Book not found in the library.

Lastly you have to check your system using a book ID that should be the number of characters in your name.