Objective: Write a program to hold information for a small TV show database using a binary search tree. Specifically, the show names, years, category, and the actor/actress names.

Program Description: One method of storing this information is to hold the information in a tree structure. Another method of storing this information is in a hash table. Your program is to store information in a binary search tree based upon the TV show name or actor name (your choice).

Requirements:

1. Write functions to:
   - Display all shows in the tree (only the titles!).
   - Display all actors of a given show in the tree: *The Saint*, *Benson*, *Dexter's Laboratory*, and two others of your choice.
   - Display all shows of a given actor: Tim Conway, Clint Eastwood, Marilu Henner, Tress MacNeille and two others of your choice.
   - Display all shows released between 1983 and 1993 and one other decade range of your choice.

2. Test your program:
   - Read TV show information from an external file (on the web).
   - Display all output in a useful manner.

Deliverables:

- Program—fully documented.

- A program design sheet. Describe all classes and methods needed to implement your program.

- Programming Log:
  - Record the time required to design and implement your program.
  - Record of things you encountered/learned while implementing your program.

- Output—proof that your program worked.

If you have any questions regarding this assignment, do not hesitate to contact me. Start working on this assignment as soon as possible.