Chapter 3 In-Class Practice

Search Algorithms

Complete the program that has an array containing the countries with confirmed Novel Coronavirus cases. There is a full initialization list of the following countries:

1. China
2. Hong Kong
3. Australia
4. Canada
5. Finland
6. France
7. Germany
8. India
9. Italy
10. Japan
11. Spain
12. Sweden
13. Thailand
14. United Kingdom
15. United States

Write a linear search function and a binary search function. Both functions should return true if the country was found and false if the country was not found.

Call the following functions in the order listed below:

1. linear search function
2. sort function
3. print function
4. binary search function

# Sample Output 1:

What is the name of your country? United States

Linear Search says that your country does have a confirmed case of the Coronavirus.

Sorted list of countries:

Australia

Canada

China

Finland

France

Germany

Hong Kong

India

Italy

Japan

Spain

Sweden

Thailand

United Kingdom

United States

Binary Search says that your country does have a confirmed case of the Coronavirus.

# Sample Output 2:

What is the name of your country? Bangladesh

Linear Search says that your country does not have a confirmed case of the Coronavirus.

Sorted list of countries:

Australia

Canada

China

Finland

France

Germany

Hong Kong

India

Italy

Japan

Spain

Sweden

Thailand

United Kingdom

United States

Binary Search says that your country does not have a confirmed case of the Coronavirus.