import java.util.Arrays;

public class GFG

{

    public static void main(String[] args)

    {

        byte byteArr[] = {10,20,15,22,35};

        char charArr[] = {'g','p','q','c','i'};

        int intArr[] = {10,20,15,22,35};

        double doubleArr[] = {10.2,15.1,2.2,3.5};

        float floatArr[] = {10.2f,15.1f,2.2f,3.5f};

        short shortArr[] = {10,20,15,22,35};

        Arrays.sort(byteArr);

        Arrays.sort(charArr);

        Arrays.sort(intArr);

        Arrays.sort(doubleArr);

        Arrays.sort(floatArr);

        Arrays.sort(shortArr);

        byte byteKey = 35;

        char charKey = 'g';

        int intKey = 22;

        double doubleKey = 1.5;

        float floatKey = 35;

        short shortKey = 5;

        System.out.println(byteKey + " found at index = "

                           +Arrays.binarySearch(byteArr,byteKey));

        System.out.println(charKey + " found at index = "

                           +Arrays.binarySearch(charArr,charKey));

        System.out.println(intKey + " found at index = "

                           +Arrays.binarySearch(intArr,intKey));

        System.out.println(doubleKey + " found at index = "

                           +Arrays.binarySearch(doubleArr,doubleKey));

        System.out.println(floatKey + " found at index = "

                           +Arrays.binarySearch(floatArr,floatKey));

        System.out.println(shortKey + " found at index = "

                           +Arrays.binarySearch(shortArr,shortKey));

    }

}