Binary Search program:

**import** java.util.Scanner;

**class** BinarySearch

{

**public** **static** **void** main(String args[])

{

**int** c, first, last, middle, n, search, array[];

Scanner in = **new** Scanner(System.in);

System.out.println("Enter number of elements");

n = in.nextInt();

array = **new** **int**[n];

System.out.println("Enter " + n + " integers");

**for** (c = 0; c < n; c++)

array[c] = in.nextInt();

System.out.println("Enter value to find");

search = in.nextInt();

first = 0;

last = n - 1;

middle = (first + last)/2;

**while**( first <= last )

{

**if** ( array[middle] < search )

first = middle + 1;

**else** **if** ( array[middle] == search )

{

System.out.println(search + " found at location " + (middle + 1) + ".");

**break**;

}

**else**

last = middle - 1;

middle = (first + last)/2;

}

**if** ( first > last )

System.out.println(search + " isn't present in the list.**\n**");

}

}