**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**;

}