Arrays

 The primary purpose of an array is to facilitate storing and manipulating large quantities of data. Arrays play an essential role in many data processing tasks. An array stores a sequence of values that are all of the same type. Processing such a set of values is very common. If we have N values, we think of them as being numbered from 0 to N!1. Then, we can specify one of them by referring to the i th value for any value of i from 0 to N!1. To refer to the i th value in an array a, we use the notation a[i]