

















Two-Dimensional Arrays

Туре

int[][]

int[]

int

Description

2D array of integers, or

array of integer arrays

array of integers

integer

Expression

table

table[5]

table[5][12]





















Analysis

- If the list is unsorted we have to search all numbers before we declare that the target is not present in the array.
- Because the list is sorted we can stop as soon as we reach a number that is greater than our target
- Can we do even better?



© 2004 Pearson Addison-Wesley. All rights reserved

Binary Search

- At each step it splits the remaining array elements into two groups
- Therefore, it is faster than the linear search
- · Works only on an already SORTED array
- Thus, there is a performance penalty for sorting the array

[http://web.ics.purdue.edu/~cs154/lectures/lecture011.htm









