CPE/CSC 101

· Computational Cost · Toward 202

· Office Hours

· Quiz

Tuesday 9:45-10:45 [255 270]

[cols]

[T] rows

3

linear search In The X In adm of N aperations warst case: on order of N aperations

n == list [len/2]

e, <= e, <=

binary search

N elements W/4 def binary-search (nums: List [int], value: int) >
Optional[int]: low = 0 high = len (nums) - 1 while (low <= high): mid = low + (high - low)//2

if value > nums [mid]: low = mid +1 elif value < nums [mid]:

high = mid - 1

else:

return mid high mid

high mid return None

202

data structures

- list (orray)

- list (limbed)

2 9 7 3 4 11

2 9 7 3 7 3 3 4 11

def __init__ (value: int, nost: Node):

class Node:

two subtrees

hoshtables
(dictionar)

complexity
running time

203

object-oriented design & programming class Point: def -- mit -- ()

det -- eb-- (- - -)

def distance To (self, other: Point):

C & systems programming