





		E ~ [0.8] .
Partition : presting :	Another approach:	Hence, Time complexity for Binary Scarch is o (logar)
	return -1;	log n = K
Southurn binary Search (arn, mid+1, night, Ky); g	of nutury binary se	logn = Klag2.
of return binarySearch (arr, left, mid-1, key); }	of neturn binarysea	So, m= 2K Application log
Condition of the state of	if (over [mid] > key)	The state of the s
(A)	of (anr [mid] == key) Socotion mid;	$(m/2^2)/2 = m/2^3$
mid = left + ((right - left) / 2);	int mid = left +	(n/2)/2 = n/2
) 5	if (right > = left) {	(state as before the state)
arr[], but left, int right, inthuy)	sut binarysearch (int arr [],	of elements
Search:	Algorithm of Binary Search:	Time Complexity for Binary Search:
DATE: 1 120		FAGE NO.:

DATE:		DATE: 1 120
int binary search (struct list list, unt key) of ind il, mid, h;	0, 7, 10, 0,	10, 0, 3, 9, 2 2 4 4
h= list. length -1;	15t Pass 5, 7, 0, 3	3, 9, 2, 10 6 + 6.
maile (l<=h)	and Pass 5, 0, 3,	4, 2, 9, 10 5+5
mid = (1+h)/2;	3nd Pass 0, 3, 5,	2, 7, 9, 10 4+4
if (Ky == list. B[mid]) S setwon mid;	Ath Pass O, 3, 2,	5, 7, 9, 10 3+3
3	SHe Pass O, 2, 3,	5, 7, 9, 10 20+20
else if (ky < hist. B[mid])	oth Pass	[+]
h = nud - 1		n(n+1), n(n+1)
	=) Time complexity is of the o(n2)	of the 0(n2)
2 = mid + 1;	Psuedo Code of Bubble Sorting:	ing:
Jutuan -1;	for(2=0; 2 <n; 2++)<="" td=""><td></td></n;>	
62	$ \begin{cases} \text{for } (j=0); j < n-2; j++) \end{cases} $	
Sorting:	δ (α[j] > α[j+1]) δ temp = α[j]; σ[j] = α[j+1];	State of the state
Bubble Sorting.	a [j+1] = tump,	
Thre complexity: 0 (n2)	60	

Veluction Sext	
	Insertien best
amparisons can be multiple, but there exists only	
a single surply in each pass	* Time Complexity: 0(nt).
Time (temploxity: o(n²)	9 2 10 0 5 3
	10 0 5
0 0 5 6	2 9 10 5
0 9	3 9
0 0 0 0 5	20 01
Pseude lade for selection sext:	Bringly and Company
	The Mention of the Comment
for(1=0; 14n; 1+t)	10x 10=1. 0 < m. 1++1
\$ prs = 13	3
for (j= 4+1) f <n> j++)</n>	
Entrato Code at Bridge Continue:	Muselfred & alfred
70% = 0	alj+11 = aljJ;
-	8-3-1;
(1=1 52) h	
I temp = a [i];	-
ali]= alpos);	
acpest = temp;	
- Company of the last of the l	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND

(a) distributed	
	Advantages:
1 1	Insertion is easy, I = o(1). Infinity collision resolve.
State	
7 800	Disadvautages:-
	Searching & Delotion is tough.
Probability	
	Collision:
*	Seperate Chalu [open Hashing]
*	Open Addressing [Closed Hashing]
1	Linear Proting
	Quadratic Proting
200	
0	Probability + + + + + + + + + + + + + + + + + + +