Searching

Linear Search

1 1 5		
A [$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 Key=20 (keyboard) No. of elements, n=5
i = 2	$A[2] = 20$ $\Rightarrow 5 = 20 \text{ False}$	
i = 3	$A[3] = 20$ $\Rightarrow 20 = 20 \text{ TYUL}$ $A[1] = KLY$	Found", i 3 Algorithm
$\frac{1}{1} = 1$	$A[1] = 25$ $\Rightarrow 10 = 25 \text{ false}$ $A[2] = 25$	for i = 1 to n if (A[i] = Key) print, "found", i
i = 2 i = 3	$\Rightarrow 5 = 25 \text{ False}$ $A[3] = 25$ $\Rightarrow 20 = 25 \text{ False}$	exit loop end if
i = 4	A[4] = 25 $\Rightarrow 15 = 25 \text{ False}$	end for if (i>n) print "Not Found"
i = 5	A[5] = 25 =) $13 = 25$ False 	end if
1=6	=> 6> 5 True Not For	end

Binary Search	Page of 6
73 KEZ 13 LC 13 LC	H L Z
A[5] < 70 A[5] < 70 =) 50 < 70 Truc X A[4] < 70 =) 60 < 70 Truc	Mid X A A A A A A A A A A A A A A A A A A
A LS W	こ 一一 一一 一一 一
24 25 (24 25)	
A = 10 $A = 10$ $A =$	Found" A[5] > 35 A[5] > 35 A[2] > 35 A[2] > 35 A[3] > 35 A[4] > 35
n=10 A[5]>70 =) 50>70 (False) =) 80>70 (Troug) =) 80>70 (Troug) =) 80>70 (Troug) =) 80>70 (Troug) =) 60>70 (False)	
v	
of elements, A[mid] = key A[5] = 70 So (False) Bo (False) A[6] = 70 A[6] = 70	$A[7] = 7$ o (Tr) $A[7] = 7$ o (Tr) $A[mid] = \kappa (r)$ $A[5] = 35$ $A[2] = 35$ $A[2] = 35$ $A[4] = 3$
A[m] A[m] A[S] A[B] A[6]	
	L C C C C C C C C C C C C C C C C C C C
100 12 4 4 10 12 5	43 = 7 2
200 1.id= 1.	mid=3 mid=4 mid=4 mid=4 since
	17 -1 1 == -
10 2 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 6 4 6 6 4 6	3 4 5 50 40 40 40 40 40 40 40 40 40 40 40 40 40
1	
2 2 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	

xey = 4	E 3
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