Problem 1 Analysis

Midterm

Linear Search

retun;

3

#

8 (y-x)+1

n-1+1

'n

FIS

Bir	nary Search Written Analysis
7-7	One of the
int	bin srch (int b[], intn, int num)
5	VIII SICH (111 - 7) 111 17 114 17 17 17 17 17 17 17 17 17 17 17 17 17
7	
	int lownum =0;
	int high num =1;
9 18 -	
do	€
ir	int mid = ((lownom + highnum)/2); (val = b [mid]) return mid;
01	is () > b [mid] los = aid:
<i>७१५</i> ६	e if (va) > b [mid] > low num = mid; e nighnum = (mid-1) i
6126	nighnum =(mid -1)1
	3
while	
	low
Acres 1	

Scanned with CamScanner

Brany Sear CM $low num = 0$ $highnom = n-1$ $low num = highnum = 1$ $N = 2^{\times}$ $log_2 N = log_2 (2^{\times})$ $log_2 N = log_2 (2^{\times}) \times X$ $log_2 N$ $log_2 N$	
low num = 0 highnom = n-1. low num + highnum = 1 $N = 2^{\times}$ $N = 2^{\times}$ $\log_2 N = \log_2 (2^{\times})$ $\log_2 N = \log_2 (2^{\times}) \times X$	
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$N = 2^{\times}$ $\log_2 N = \log_2(2^{\times})$ $\log_2 N = \log_2(2) \times \times$	3 3 35
0g2 N = logz (2x) logz N = logz (Z) xx	3
0g2 N = logz (2x) logz N = logz (Z) xx	3 - 25 2A:
0g2 N = logz (2x) logz N = logz (Z) xx	
1092 N = 1092 (2) *X	
1092N 1092N	
[log2N]	132-13-49-11
	324194
	<u>6/6 /</u>