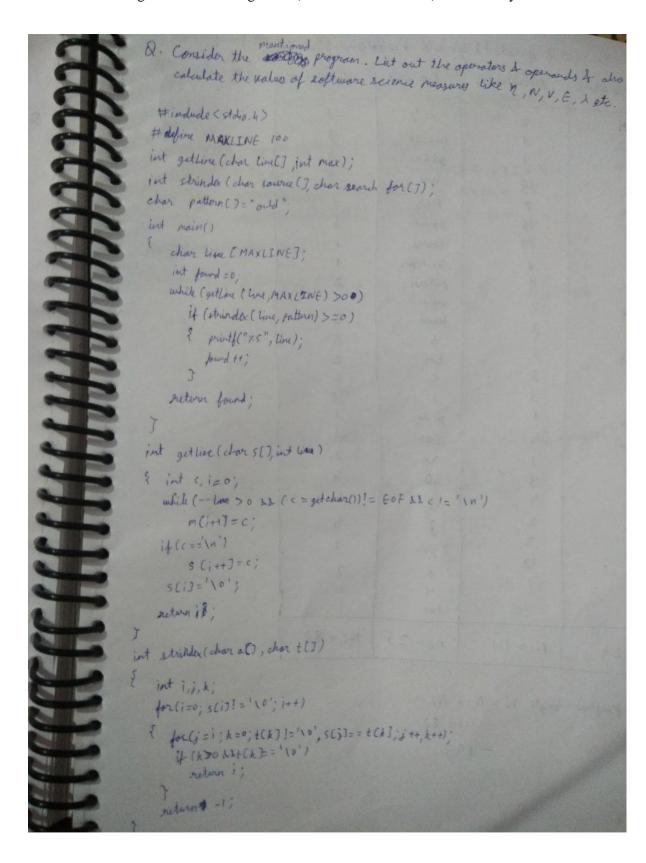
Abhinay Bhatt	Software	Testing -4	(
179301009				
Q. Consider the sorting pocalculate the value of	erogram. Li software so	st out the o	perators & ope was like n,	rands Labo N, V, E, L, et
	Operators	Occurrences	Operands	ourrends!
int sort(intx[], int in	int	4	Sort	1
int i,j, nave, imi; if (n <2) return 1;	()	5	x	7
	,	4	n	3
	CI	7	i	8
for(i=2; ik=n; i++)	¥	2	j	7
im(=i-1;	<	2	Sauce	3
fre(j=1;j<=im:j++) if(x(i) <x(j))< td=""><td>;</td><td>11</td><td>int</td><td>3</td></x(j))<>	;	11	int	3
,	for	2	2	2
Save = x Li);	=	6	1	3
x(i7=x(j); x(j)= souc;	-	1	0	2 29 400
1	<=	2	442	
7	++	2	Variety College	114
Jesturn 0;	neturn	2	FOR - DE	-
-	{}	3	- 1000	-
the same of the same of the same	4000000	111111111111111111111111111111111111111		
	n1=14	N1=53	12=10	N2=38
Here N:= 53.4N2=38.		a state and		
The Brogram Longth N = N1+N2 = 53+38				
=91				

Vocabulary of the program n=n1+n2=14+10=24 111111111111 Walnus V= N* log, N = 91x log, 24 = 417 6its The estimate program length N of the program = 14 log , 14+ 10 log , 10 The potential volume V = 5 log, 5 = 11.6 15 nzx os Since $L = \frac{V^*}{V} = \frac{11 \cdot 6}{117} = 0.027$ D=1/L = 1 = 37.03 Estimated brogram Level $L^{\prime} = \frac{2}{n_1} \times \frac{n_2}{N_2} = \frac{2}{14} \times \frac{10}{38} = 0.038$ We may use another formula V = VxL = 417 x0.038 = 15.67 E" = V/L" = 0" xV = 417 = 10973.68 10974 elementary mental discrimination is required to construct the $T = \frac{E}{B} = \frac{10979}{18} = 610$ sec. = 10 min. This is probably a reasonable time to produce the program, which is very



Operators	Occurences	Operands	Occurrences	
al al	2	47	1	
#	1	MAXLINE	3	
include	1	getline	3	
define	10	line	5	
int	8	max	1	
char	16	Strindex	3	
[]	17	Source	1	
()	6	Seach for	1	
= { }	5	pattern	2	
	2	main	test the state of	
while	3	found	3	
it		5	8	
printf	-	lim	2	
++	5		6	
7	3	111	10	
>=		getcher		
neturn	4	EOF	2	
	1	in	4	
11	3	10		
!=	1 4	t	4	
for	2	1	4	
==	3	6.	7	
,	12	0	7	
7.	1	1 -1	1	
	-	100		
2 h	N1=111	nz= 25	N2 = 82	
= 24 e program	$N_1 = 111$ length $N = N_1$ = 11		N2 = 82	

