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1	Best A	
1	Best, Anerge and Worst Caus:	12
	Best Case: W.	31 1
	Average (as: 2)	44
	wort care: Marie an the conditions.	
	Best Case: Minimum proder of growth for an algo. Average Case: Based on the conditions. Worst Case: Maximum oog and size for an algo.	
#	Assumptation 1111	
	Asymptotic Notations	785
	Theta: Exact	
	Omega: Fine	
	Big 0: Exact or upper Theta: Exact Omega: Exact or lower	(0)
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J	Linear search.	
	The second secon	
	int search (int art], int n, intx)	(2)
1	(1)0	
-	for Civet i =0; ix=n; 1+1)	
	if (artiJ = = n) and a state of the	-
	actum i;	(6)
	2 churn -1;	1
		(No has)
	1	
	Bigo - o(n)	2
		N. 57
0.	(40)0 9	4 to
Big	0 Notation	13 : 3
	Ely o morte for mustiful variables also - 0	4/5
Direct way - Ignore lower order terms Ignore leading turn constant		9 %
	Agnore leading torus court &	36/2 2
	J' the contraint of	7 11: 11:
	(acorpton)	14 1
	100 m + 200 + 200 + 2001 + 2001	- 44

g(n) = 100n +3, comparisonorder of Growth: $C < loglogn < logn < n^{1/3} < n^{1/2} < n < n^2 < n^3 < n^4 < n^4$ COMPANSON -(0) f(n) = Cylog n + Cyloglogn + Cs plan) Cylogn + Cz A we can g(n) grows faster according to comparison Hence g(n) is a bad also. ((n) = (,n2 + C,n + C3 gen) = Cynlogn + Con + Co g(n) = n logn (n) = 12 $g(n) = \kappa \log n$ g(n) = n $g(n) = \log n$ P(n) 009 > g(n) 009