	Math Basics
. >	int n= 7789 of 10 a extraction of digits is taking input in
17:0' pt	not 770 000 - 1 and while no , and prints the
1 oriel	105 77 0/010 = 8 last oligit % 10. Then divides no by 10 to iterate till 0 * IN
	1010=1
	70 TO 10 = 7 REVERSE ORDER
	count = 0; * just make a counter for
1 212	the anded loss the
1	lastdig: t = n %10;
1113	count += 1;
	m = n/10
	3
	time complexity is O(10 (NI)) 11 11 in it
	number of times it is divided by 10
W.	IT IS OUTPORED by 10
7/10	If diason 1 10 1 (M)
	It division is happening by 10, log10(N). by 2, log2(N)
.0	77700
1.60	n=7789 -> 9877
100 0	
- 2A1	reverse Num = 0; last Digit = n %010;
Day	last Digit = n %010;
1	Uigit 1
	Concept
	reverse Num = (reverse Num x10) + last Oigit;
	3
	return reverse Num;

2/19/25 palindrome is ex 121 == 121, 12321 === 12321 take reverse number and compare ul orrginal - (xror) n=371 = 33+73+13 = 371 make sum = 0 variable run rest of code the same 36 -> 1,2,3 4,6,9,12,18,36 // distible Wo remainder ON loop from 1-2 n for (i=1; i < En, i+t) \leq check it leads 0 remaider if (n % i == 0) print is

ON 3 first check if i is tactor also check if the factor is not equal to i, so no displicate store in a list vector <:nt> 15;
soft list for (anto it: 15) cont << it << ""; te 15 0(# of factors -9 logs) * check it factors are 18 itself 1 /f(nº/0(==0) int cnt =0 Forme for (:=1; ix=n i++) { cnt ++; it((n/i):= 1 if (n10/0 i== 0) cht+;) it(ch+ = = 2) /; F(<n+==2)V; M'' Telse X;

Dog 10 2120135 N=9 NJ-13 Light dinger 1,2,6,12,3,4 30 god(9,12)=3 from 1-3 hd, object every number to see if it direks both, keep replacing god till highest number tor(/6:1; ix=min(n1) n2); (++) { if (n10/0i==0 88 n20/0i==0) { TC = O(min(n1, n2)) flipped) tor(i=min(n1,n2)-, i>=1=i--) {
if(n1%)i==0.8 = n2%i==6) { print i; 1/ same time complexity EQUILATERAL ALGORITHM gcd(a,6) = gcd(a-6,6) gcd(10,5) = gcd(5,5) - 7 ged(5-5,5) (0,5) so when a > 6 gcd(a,b) = gcd(a⁹/₀b,6)value = 0, the other vulne is the