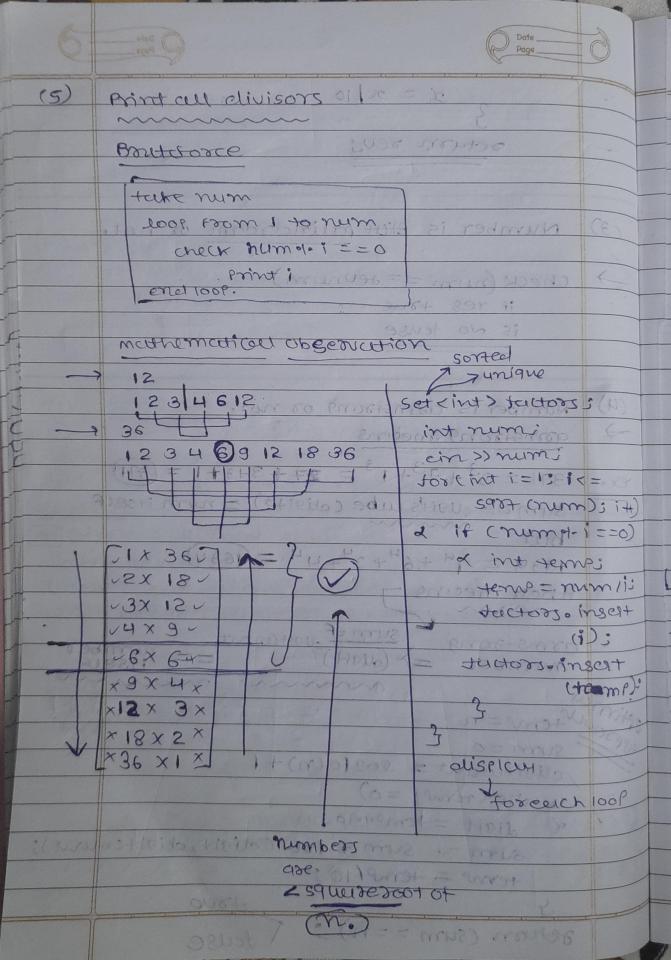
Basic mouths 500 DST (1) -Digit counts I'm -extraction of digits P8FF=1 7 8 sicol or (int) 7789. 1.10 = 7789/10=778 778 .1. 10 = 778/10 = 77 = 01 ·1· FF 77/10 = 7 7 .1. 10 = 7/10 = 0 ... - MAULCATOR C= TYPHE PTCZ \ number n: 4567) > It am be anything count the number of disits in n which evenly divides mo 109ic:) (extract digit -> store it into terms check their n is divisable by their question religit or not rochut first check: theet digit (=0) owtrut tecke count varicules and increment it · 4567 somment variable 0 123 ind evenly Divides (int N) 2 ind wunt = 0, number 5 84 number = not 1 . 21110 while (number 1 = 0) 4.1 chisis of wint dist = number 1. 103 number = number / 20; 04051 if (disit! = 0 ff N.1. disit ==0) 1:4+ trues 6 representati

. 6	==9		
	extact learning [NO. of Oights]		
*	Bouteforce approach 12 8		
	ing count =0;		
	(ex.) 7789·1·10 = 9 wunt ++; 2		
	s :++ www 8 = 01.18 ff		
1-	97 1.10 = 71 10 17 = 1 count ++3 3		
-	7,1-10=7 (outst++; 4)		
	serion tount (u)		
	number at olighed		
	emurver as two		
	(e+0,00) (c-0,00)		
*	Optimal approach		
	TO STORY OF THE STORY		
	CELONGED FEST CORE		
	logarithmic property:		
1500	man in		
	if you take the log of any number with		
	base to and round it us, you will get		
	the number of aligits in their number		
	so, number of aligits		
	109,01 = 0 100,000		
	leg 20 20 = 1 = 2 lug 10 N +1		
	log ₇₀ 200 = 2		
	· · · · · · · · · · · · · · · · · · ·		
Ind Junction (Int n) 1 And (100)			
	ind function (int n) 1 (1 (10) (10) (1);		
	1 1		
	return " typecusting		
	3		

	© Date Page	ð
(8)	Reverse a number	(3)
	7789 ->9877 n reunum = 0	THE STATE OF THE S
	while cn>0)	1
	n = n/0:	2
1 2	cout << revnum;	
① ② ③	$(2+01\times 8) \rightarrow 9 \rightarrow $	X
9 Quest	7 -> 7 -> 9877 (98x10+7) ion - ~~~	
cligi	ten a signed 32 hit integer x, fretum:	
32 bit	runge civiteger) (-231, 231-1)	eel
MIN	= -2147483648 = 1 = 2147483647 = Dev = 03	
***************************************	$(0 = 1 \times 1) = 1 \times 1 = 1 \times 1 = 1 \times 1 = 1 \times 1 \times 1 \times 1$	
	Frenc MAX/10 11 (rev == MAX/10 & & digital to the crew & MAX/10 11 (rev == MIN/10 & & digital)	177
	2 octum 0: 3 2 octum 0: 3 3 octum 0: 3	-8)
		1

x = x/10 seturn reus Number is stat palinel some or not. check (num == devnum) if yes true is no tense number is asmstrong or not! ? 118 amstrong melins 371 = 33 + 73 + 13 = 27 + 343 + 1 = 371 ex. sum of algits cube (aligita) = num itself 1634 = 14 + 64 + 34 + 44 = (634) their meeing -=> (digit) number sum = 0 1+(n)0100 = wivortello while (terms! = 0) & digit = temp.1.10; sum = sum + powicdigit, disiteount); terms = temp/103 tore geturn (sum ==n) tause



with soming Page mistake you should have use vectors instead of sets Both approurch have the same time complexity (Incloan) However vector with sorting is teuster them using sets. Checuruse (ser) terke 109anthmic time but if You don't for each insection want to use sorting Junction then you can tuke 2 vectors IPtimal which will decrease Solution time complexity to a como vector (int) small, lerge; 36 int num; belies cin >> nemi (++1: c(mun) - 188= > 1 : (1= 1 +1) rot of if (num 1.1==0) MUX of 2 small Push-back (i); if ci! = num /i); & leioge. Push -back chum/i): mux 6 for (int 1: smaw) o(m) & display if max 6 for (log i'= leitge: size()-13 1>=0:1-015 d display i 4 weeks for Geeks sumpt au divisors (8-12 23)

