Factors of a number factor of number N will be those numbers which completely divides N [remainder is 0]  $12 \Rightarrow 1, 2, 3, 4, 6, 12$ 24 => 1.2.3,4,6,8,12,24  $48 \Rightarrow 1, 2, 3, 4, 6, 8, 12, 16, 24, 48$ Given a positive number, print all the factors of that numbers. minimum factor of N -> 1 maximum factor of N -> N all factors [I-N] will lie in this sange

for (int 
$$i = 1$$
;  $i < = N$ ;  $i + +)$  §

3

4

N = 6

1,2,3,6

## Prime Number

Not a prime number?

13 — 1,13

39 — 1,3,13,39 (not prime)

17 — 1,17

23 — 1,23

what is the smallest prime number? -> 2

divisible by I and itself X

L> 1 - 1

numbers whose count of factors is exactly

Given a number (n > 2).

Point "No is Point" if it is point point "No is composite" if it is not point. number having more than 2 factors Prime composite m: 75 n=2 -> prime

Doubles Given an integer (N) and you have to point all armstrong nois from 1 to n. sum of cube of each digit is equal to int n = scn. next Int (); int (i=1;) while (i = n) { // whether i is armstrong or not int sum = 0; int num = i; while (num > 0) \$

```
int digit = num 7.10;

sum = sum + (digit + digit x digit);
                             num = num/10;
                      if (sum = = i) }
Sopphi (i);
                   1++;
       1=153
Sun = 0
num = 153
```

num	mun > 0	digi +	Sum	num = num/10
153	true	3	27	15
15	true	5	27+125	
1	tore	1	27+125+1	0
O	folse -	break		

(15-3)