Is it perfect?

Cexcluding the number itself).

 $6 \longrightarrow 1.2,36$

Sum = 1+2+3 = 6

Yes

1 2 3 4 5

```
int n = Scu. next Int ();
int Sum = 0;
for (int i=1; i<n; i++) ?
          if (n % i ==0) $
          3 sum = sum +i;
 2
 if (sum = = n) &
      S.O.P ("Yes");
 3 else ?
      S.O.P ("No");
```

$$M = 6$$

$$Sum = 0$$

•	•			
ĺ	v 4 6	6%:==0	Sum	i++
1	toue	torre	0+1=1	2
2	tore	torre	1+2=3	3
3	true	torre	3+3=6	4
4	force	false		5
5	tone	Lalre	_	6
6	false —		> Break	

Sum = =
$$n$$

 $6 = = 6$ \Rightarrow toul \Rightarrow Yes

handle multiple test care int t = Sch. next Int (); while (t >0) \$ // work

t --)

G

Zasy Power

two integers A and B \rightarrow $(A)^B$

$$A = 2$$

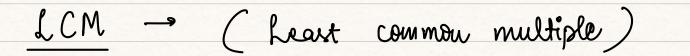
$$(5)^{3} \Rightarrow 125$$

$$5x5x5$$

(A)^B - multiplying A. B number of times

B= 5 => 4x4x4x4x4

```
int ans = 1;
                                            B=5
    for ( int i=1 ; i = B; i++) {
                                           A = 3
            ans = ang + A;
ans = 1
              am = 1 * 3 = 3 = ) (3)'
  0=1
            ans = 3 * 3 = 3 (3)^2
i= 2
  i = 3
             am = 3 \times 3 \times 3 = 3 (3)^3
                             am = (3)^8
  i=B
```



$$6 \Leftarrow \begin{bmatrix} 2 & 2 & 3 \\ \hline 3 & 1 & 3 \\ \hline & 1 & 1 \end{bmatrix}$$

$$20 \Leftarrow \begin{bmatrix} 2 & 4 & 4 & 10 \\ 2 & 2 & 5 \\ \hline & 5 & 1 & 5 \\ \hline & 1 & 1 \end{bmatrix}$$

L.C. M is the smallest number which is completely divisible by both A&B.

A = 8

B = 40

max = 40

= 2x8

40

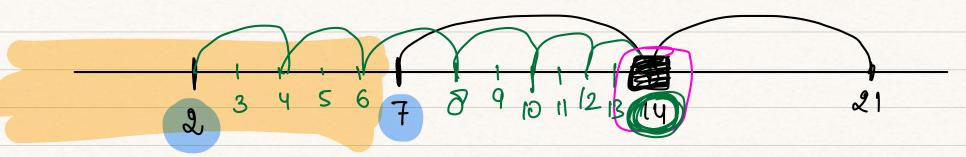
= 40x1

12 E 2 9, 6 2 2, 3 1, 3 1, 1

A= 4

B=6

=) 12



- 1) find the maximum between A&B
- 2) mour forward and try each number whether it is divisible by both

```
ret common multiple. [break stortement
int a = scn. next Int ();
int B = Scn. next Int ();
int max = 0;
  if (a>b) &
     max = 0;
   Belle &
     max = b;
 ind ans = 0;
 while (tone) &
       if (max % a == 0 27 max % b == 0) {
          breek's
      max++;
```

S.O.P (max);

Print the primes

N

point all poine numbers form 1 to N

N = 10

2 3 5 7

- (i) check all numbers from 1 to N
- 2 Court of factors = = 2 — print the number

```
int n = scu. next Int ():
for ( int i=1; i<=n; i++) {
        // check and print if i'is prine
         int count = 0;
         for (ind num = 1; num <= i; num ++) {
                 if ( i % num = = 0) $
                  2 count ++;
                 if (count > 2) }
```

if (count = = 2)
$$\xi$$

SOOPM (i):

$$\frac{2}{3}$$

N = 4

N = 6

N = 6

N = 7

N = 7

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N

4=3

count = 0

num	num <= i	0 == nwn 0/j	count++	count >2	num+t	
1	fore	tone	1	false	2	
2	tore	tone	2	falle	3	
3	tous	falle	-	false	, Lp	
4	tore	tone	3	true	>	break
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

wwt = = 2

(false)

```
int 2=0;
for ( i= 0; i 25; i++) {
      if (i < 4) }
            S. O. P ("Hello!") 5
            pscok ; .
               124
  i < 5
                         Octout i++
                          Helia! -> break
               tone
                                    Texit the woop]
```

int a=0; € (++i : 01= > i ; 1= i tri) sof a=0 if (i%2!=0) { ċ i <=10 2++ 10/021=0 0 true true -> 2 false Continue; true torre tous falle tone 4 tone tone true talie 3 tone 8 S.O.P (a); => 5 true false tour tone > 10 falle tous 10 false

Deubts

i c=5
1
2
3

1 2 3

× 2 × 3 break

exit the

1++

Good

i==3

a = 24 b= 36 24 will be the highest 1234567891011(3) break first ans will be the highest