Prime humber

16 -> ? -> 1,2,4,8,16

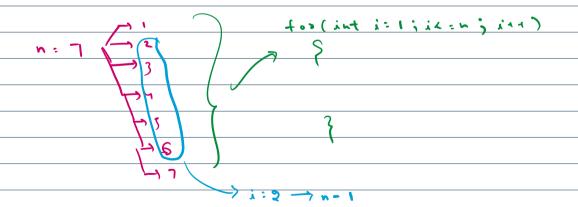
A not which is divisible by 1 or itself.

N = 10

n: 10 is divisible by 5

10 -1 . 5 = = 0

modulus -> rem.



A no. is prime only when it is not divisible by any number in the range of 2 to n-1.

int n:7;

```
int n : 7 ;
                                 i: 2 2 < 7 → ~
 for (int it 2; i< n ; i + ) }
     if (n 10 i == 0) }
                                  7 % 2 = : 0
        SUP (" Not grime ");
                                  よころ ろくつ ウン
     e 29e {
                                  7 1.3:: 0
         Sop ("Prime");
                            9 mime
                               1:2 2 < 7 -> V
              divisible by
 int n: 7; 1 now many times 74.2: 6 -> X
 int count = 0
 for (int i: 2 ; i < n ; i ++ ) } i:3 3 < 7 > /
      ¿ ( 0 = : i . 1 = 6 ) }
                                79.3 = = 0 -> X
          Count +1 ;
                                3:4 427 → V
                                 7 764 : EO -> X
 if(com+ = :0) {
                                 1:5 5<7 → V
    Sop ("prime");
                                 79,5::0 -> x
                                 j:c (< ¬ → ∨
  erse ?
    sop ("not prime"))
                                 79.0::0 -> x
                                 1:7 -1<7 → X
int n = 4;
                           1:2 2 < 4 → V
int count = %;
                            49,2==0=>0==0
for(int i=2;i<n;i++){
  if(n%i==0){
                            i:3 3<4 → V
    count++;
                            491,3::0 => 1::0 -> X
  1::0
if(count==0){ → fag ç €
                           1:4 4 < 4 → ×
  System.out.println("prime");
}
else{
  System.out.println("not prime");
}
```

363

erent are numbers from 1 to 100 y which are not arvisible by 3.

```
for (int i=1; i<=100; i++) {
     it (jolo 3 == 0) {
      continue;
it (j.10.3 | =0) {
       sop (i);
Fibonacci Levies
0 1 (1) (2)
            3 (5) 8 13 21 34 55
                                          801
second - 1
a : 0
                             a = b
b = 1
c : a + b
                  C: a+ b
0 4 1
```

```
a:o \rightarrow fisst
                                  fib(4) = 7
  for (int i:0; i<=n-2; i++) }
                                     t; b(3) + t; b(3)
        c. atb; - +wild
        SOP(();
 Greatest common Divisor (CICD)
 (60,36)
   36)60(1
                      ) 24 (7
find god of (140, 34)
             > pividend
                               -> L00P
                                  Ly dividend lo divisor
8021060
                3 2
```

