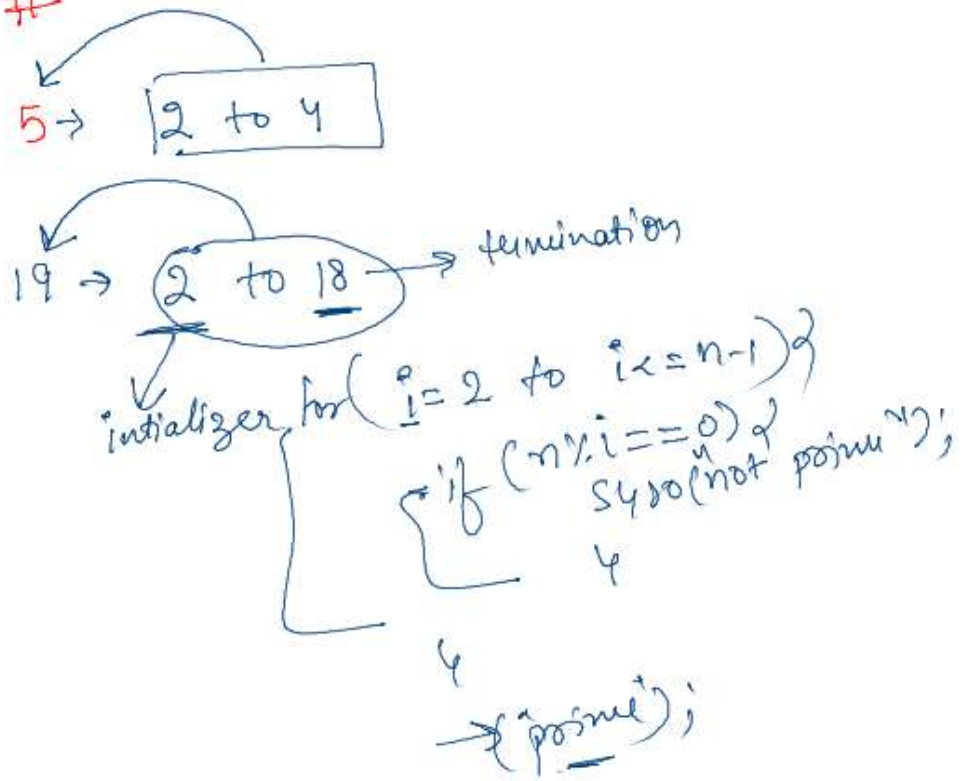
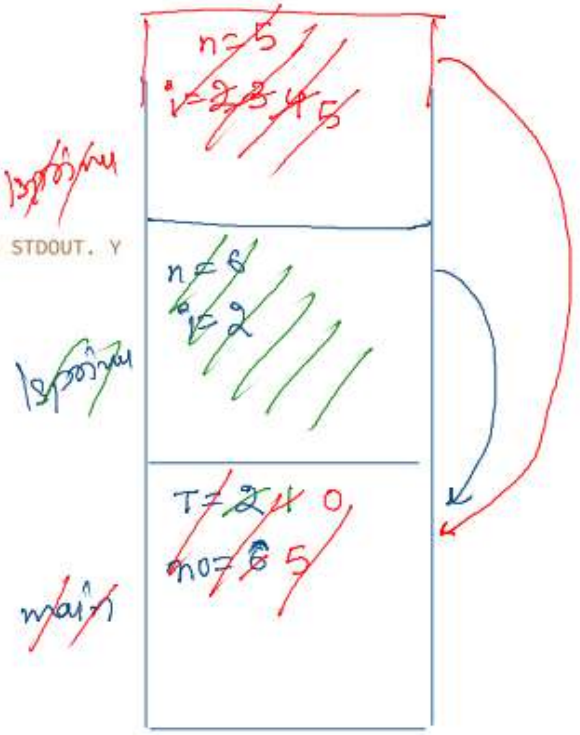
Q Prime #




```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int T= scn.nextInt();

    while(T>0){
      int no = scn.nextInt();
        Isprime(no);
        T--;
    }
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Y
}
// yes = prime No = not prime 5
public static void Isprime(int n){
 if(n==1){
        System.out.println("No");
        return;
    }

 for(int i=2;i<n;i++){
        if(n%i==0){
            System.out.println("No");
            return;
        }
    }
    System.out.println("Yes");
    return;
}
```

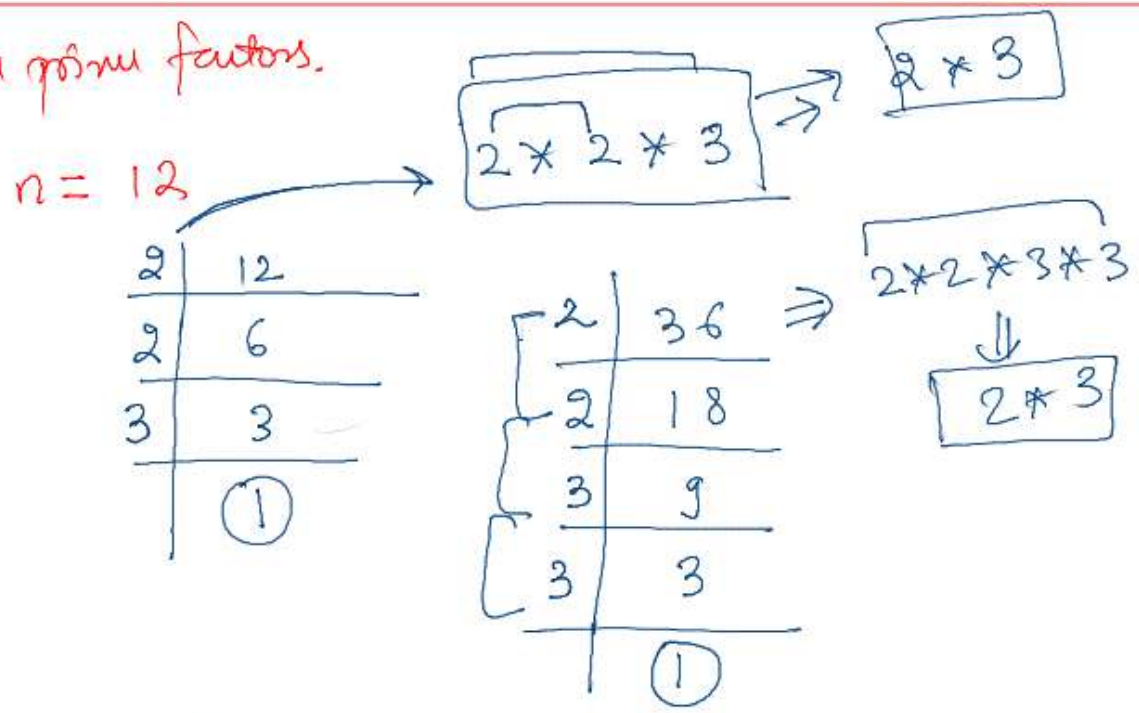
0>0

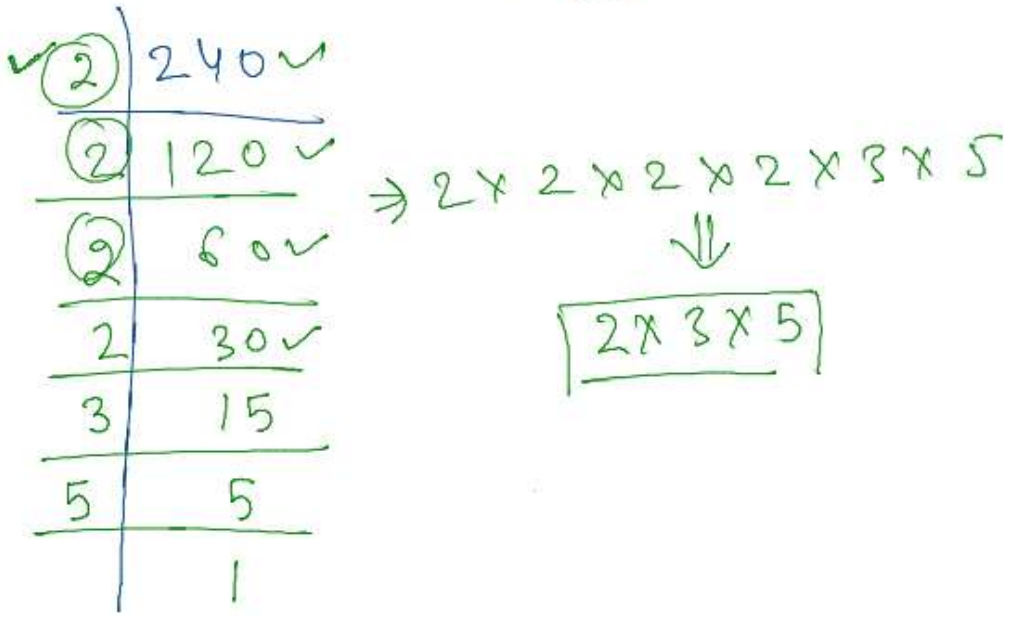
No
Yes



Q

Unique prime factors.



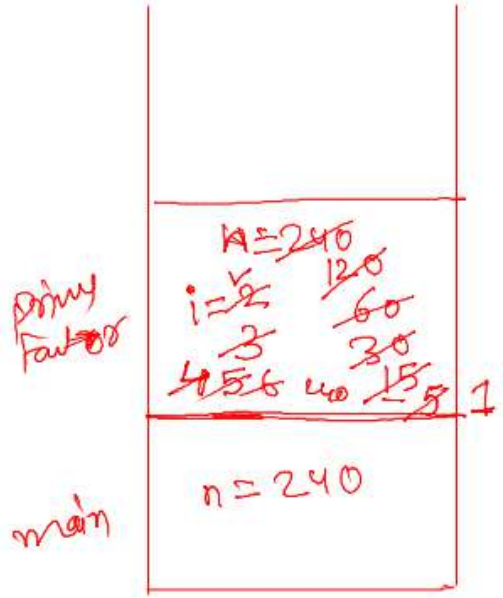



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    primeFactor(n);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT.
```

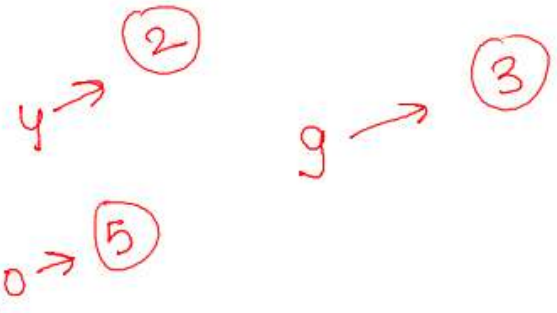
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    primeFactor(n);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT.
}

public static void primeFactor(int n){

    for(int i=2;i<=n;i++){
        if(n%i==0){
            System.out.println(i);
            while(n%i==0){
                n =n/i;
            }
        }
    }
}
```

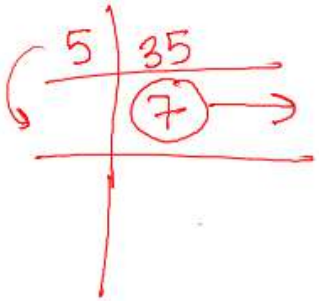
n!=1

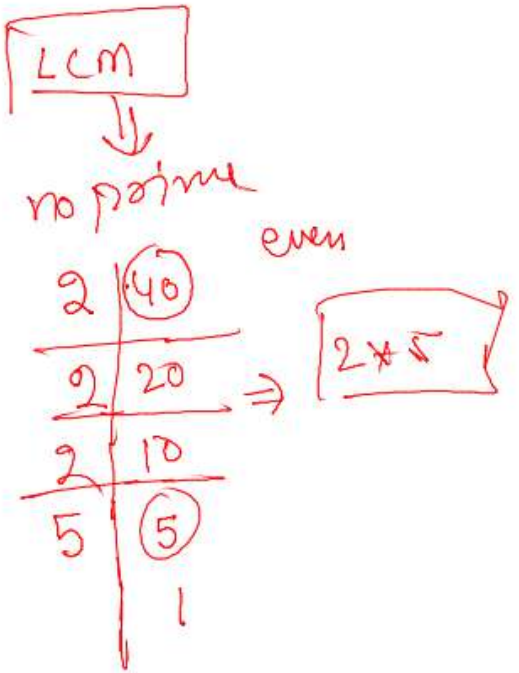
2
3
5



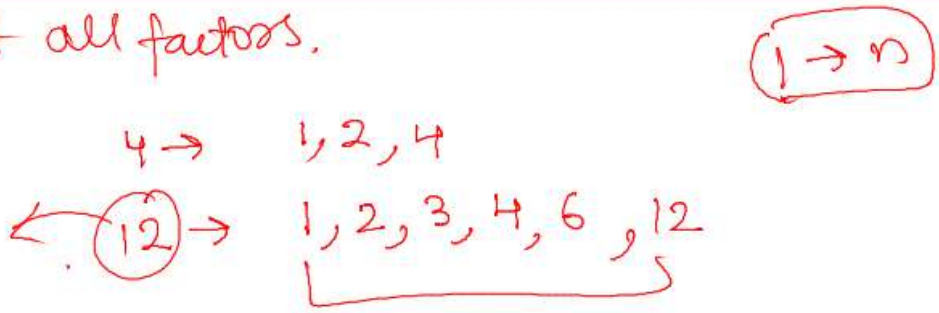
240%2==0
n
1*5==240
1







Q print all factors.



--n
⇓
predecrement

same response

Q

Take a natural number **n** as an integer input, and variable steps of integer type as input. Then perform the following operations on it.

a. If the number is **divisible** by **2**, then keep on **dividing** the number **n** by **2**, till the time the number is **divisible by 2** and also **increment** the variable steps by **2**, each time you divide the number by **2**.

b. Also, check If the number is **divisible** by **3**, then keep on dividing the number **n** by **3**, till the time the number is **divisible** by **3** and also increment the variable steps by **3**, each time you **divide** the number by **3**.

c. Also, If the number is **divisible** by **5**, then keep on **dividing** the number **n** by **5**, till the time the number is **visible** by **5** and also **increment** the variable steps by **5**, each time you divide the number by **5**.

In the end print the value of the variable steps in the first line and final value of number **n** in the second line.

n = 45

steps = 2

if 2 → divisible.
step += 2;
if 3 - divisible
step += 3;
if 5 - divisible;
step += 5;

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int steps = scn.nextInt();

    while(n%2==0){
        n=n/2;
        steps +=2;
    }

    while(n%3==0){
        n=n/3;
        steps +=3;
    }

    while(n%5==0){
        n = n/5;
        steps +=5;
    }

    System.out.println(steps);
    System.out.println(n);
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. You
}
```

→ 45 15 5 1
= 9 5 3

3
1