⇒ **armstrong no.**

↳ power is count of digits in no.

↳ ans ⇒ sum of power of count of digit

$$\overset{c}{\overline{xyz}} \Rightarrow x^c + y^c + z^c \Rightarrow abc$$

check (abc == xyz) ⇒ Yes

No

Ques Count no. of digits

num ⇒ 1000 $\boxed{c=4}$ $c=0$

↓

num > 0

loop

$num = 1000 / 10$, $c = 1$

$num = 100 / 10$, $c = 2$

$num = 10 / 10$, $c = 3$

$num = 1 / 10$, $c = 4$

$1000/10 \Rightarrow \boxed{100} \cancel{/10} \Rightarrow 10/10 \Rightarrow 1 \cancel{/10} \Rightarrow 0$

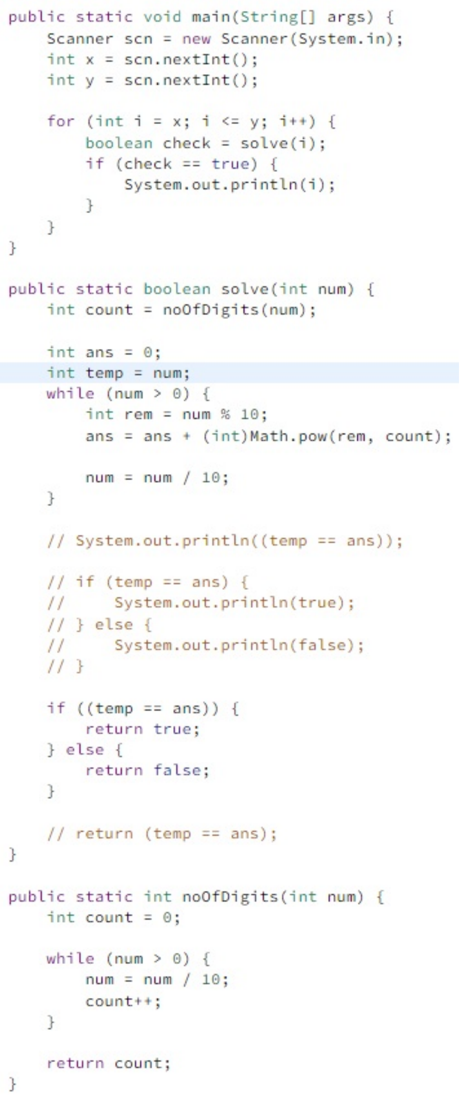
num ⇒ 1000 , c = 4

$ans \Rightarrow 1^4 + 0^4 + 0^4 + 0^4$

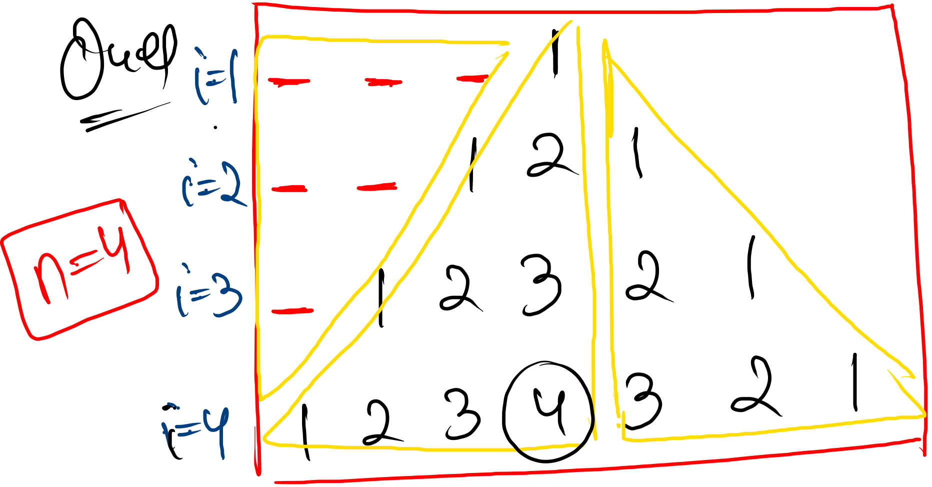
$ans \Rightarrow 1$

(ans == num) Yes

No



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

    for (int i = x; i <= y; i++) {
        boolean check = solve(i);
        if (check == true) {
            System.out.println(i);
        }
    }
}

public static boolean solve(int num) {
    int count = noOfDigits(num);

    int ans = 0;
    int temp = num;
    while (num > 0) {
        int rem = num % 10;
        ans = ans + (int)Math.pow(rem, count);

        num = num / 10;
    }

    // System.out.println((temp == ans));

    // if (temp == ans) {
    //     System.out.println(true);
    // } else {
    //     System.out.println(false);
    // }

    if ((temp == ans)) {
        return true;
    } else {
        return false;
    }

    // return (temp == ans);
}

public static int noOfDigits(int num) {
    int count = 0;

    while (num > 0) {
        num = num / 10;
        count++;
    }

    return count;
}
```



Ouel

n=4

```
i=1  - - - 1
i=2  - - 1 2 1
i=3  - 1 2 3 2 1
i=4  1 2 3 4 3 2 1
```

```
for(int i=1; i<=n; i++){
  for(int j=n-1; j>=0; j--){
      Syso("  ");
  }
  for( int j=1; j<=i ; j++){
      Syso(j);
  }
  for( int j=i ;j>=2; j--){
      Syso(j));
  }
}
```

Ques) input n

↳ n no. of digits input

int n= ___

Ques)

```
for( int i= 1 ; i<=n; i++ ){
    if( n% i == 0) {
        int count = 0;
        for( int j= 1 ; j<= i ;j++) {
            if( i%j==0) {
                count ++;
            }
        }
        if( count == 2) {
            syso (i) ;
        }
    }
}
```