Rotate 7-digit number to right by three

1234567

n = 1234567 %.10

%.10 → 7

%.100 → 67

%.1000 → 567

op → 5671234

int lastthree = n % 1000 → 567

int firstfour = n/1000 → 1234

return 5671234

lastthree × 10000 + firstfour

567 × 10000 + 1234

5670000 + 1234 = 5671234

HW_Check Palindrome

Eg. → 121 / 123

1. main
2. reverse → 121 (int)
3. boolean isPalindrome (int num)

return number == reverseno(num)

121 == 121 true

```
        int t;
        for(){
            int num;
            if(isPalindrome(num)){
                syso("YES");
            }
            else{
                syso("NO");
            }
        }

    }

    public static int reverse(int num){

    }

    public static boolean isPalindrome(int num){
        return num == reverse(num);
    }
```

HW_Print Armstrong in a range

Eg. → 1234

① no. of digits → count

② power

In-built function of find length of a number

int n = String.valueOf(number).length();

String.valueOf(1234).length() → 4

1234 → "1234"

```
    int n = 1234567;
    int ans = String.valueOf(n).length();
    System.out.println(ans);
}
```

```java
public static boolean isArmstrong(int number){
    int original = number;
    int result = 0;
    int n = String.valueOf(number).length();

    while(original != 0){
        int rem = original % 10;
        result += power(rem, n);
        original /= 10;
    }
    return result == number;
}

public static int power(int base, int expo){
    int result = 1;
    for(int i = 1; i <= expo; i++){
        result *= base;
    }
    return result;
}
```

```java
public static void main(String[] args) {
    /* Enter your code here. Read input from S

    Scanner s = new Scanner(System.in);
    int x = s.nextInt();
    int y = s.nextInt();

    for(int i = x; i <= y; i++){
        if(isArmstrong(i)){
            System.out.println(i);
        }
    }
```

x = 300 y = 500

i = 300 ≤ 500 T

300

ori = 300

result = 0

300 % 10 → 0

0 + 0

300 / 10 → 30

n = 3

300 != 0 T

30 % 10 → 0

0 + 0 ≥ 0

30 / 10 → 3

result = 1

1 ≤ 3 T, 2 ≤ 3 T, 3 ≤ 3 T

3 % 10 = 3

0 + 27 = 27

3 / 10 = 0

1 x 0 x 0 x 0 = 0

$0^3 \rightarrow 0$

$3^3 \rightarrow 27$

300

27 == 300 false

301