Ques Reverse a n-digit no.

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int num = 0;
    // to generate my number
    for (int i = 0; i < n; i++) {
        int digit = scn.nextInt();
        num = num * 10 + digit;
    }
    System.out.println(num);
    // to reverse the number
    int ans = solve(num);
    System.out.println(ans);
}

public static int solve(int num) {
    int rev = 0;
    while (num > 0) {
        int rem = num % 10;
        rev = rev * 10 + rem;

        num = num / 10;
    }
    return rev;
}
```

output: 412
214

e.g., n = 3 (4, 1, 2)
digit

num = 0
num = 0*10 + 4 = 4
num = 4*10 + 1 = 41
num = 41*10 + 2 = 412

---

rev = 0

412 > 0 ✓ rem = 412 % 10 = 2
rev = 0*10 + 2 = 2

41 > 0 ✓ rem = 41 % 10 = 1
rev = 2*10 + 1 = 21

4 > 0 ✓ rem = 4 % 10 = 4
rev = 21*10 + 4 = 214

0 > 0 ✗

Ques Check if a no. is armstrong

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

    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;
    }

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

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

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

    return count;
}
```

Rotate 7-digit number to right by three

num = 2345678

int rem = num % 1000 = 678 ←

num = num / 1000 = 2345 ←

int ans = rem * 10000 + num ;

6780000
+ 2345

6782345

Ques Prime checker 2

n = 5

it will divide by 1 & n ⇒ prime

it will not divide by any no inbetween 1 & n ⇒ prime

n % 2 = ∝
n % 3 = ∝
n % 4 = ∝
} prime

n = 9 ← not prime
n % 2 ∝
n % 3 ✓
n % 4 ∝
n % 5 ∝
n % 6 ∝
n % 7 ∝
n % 8 ∝

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

    if (n == 1) {
        System.out.println("No");
    } else {
        int count = 0;
        for (int i = 2; i < n; i++) {
            if (n % i == 0) {
                count++;
                break;
            }
        }
        if (count == 0)
            System.out.println("Yes");
        else
            System.out.println("No");
    }
}
```

n = 15 C = 0

n % 2 == 0 ∝

n % 3 == 0 ✓

C = 1

∝

n = 5 C = 0

⇒ n % 2 == 0 ∝

⇒ n % 3 == 0 ∝

⇒ n % 4 == 0 ∝

C = 0

n = 7 C = 0

n % 2 == 0 ✗
n % 3 == 0 ∝
n % 4 == 0 ∝
n % 5 == 0 ∝
n % 6 == 0 ∝

C = 0