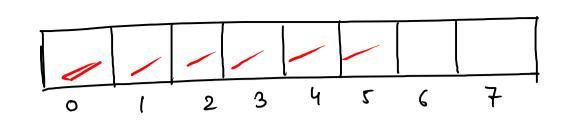
Product of ele. except itself

Count smaller no. Ly Array concept I Number theory Scalaulator 36



$$\gamma = 12345$$

$$\frac{d_{10} \pi un}{1) \frac{12321 > 0}{1 - 12321}}, \quad n = 12321 = 1232$$

$$n = 12321 / 10 = 1232$$

$$n = 12321 / 10 = 1232$$

$$n = 12321 / 10 = 1232$$

a)
$$|232>0$$
, $91em = |2327.10=2$, $ans = 1 + 10 + 2 = |2|$
 $|232/10=|23|$

3)
$$123 \times 0$$
, $\pi em = 123 \% 10 = 3$, $ans = 12 \times 10 + 3$ if $(ans = = num)$ P
 $m = 123 / 10 = 12$ = 123

$$m = \frac{123}{10} = 12$$
 $m = \frac{123}{10} = 12$
 $m = \frac{123}{10} = 12$

$$n = 12/10 = 1$$

$$1 \ge 0$$

$$n = 17/10 = 1$$

$$n = 1232$$

$$n = 1232*16 + 1$$

$$n = 1/10 = 0$$

$$= 12321$$

n=12321; temp=n; interns=0 ruhile (temp>0) {

int rem = temp?.lo;

temp = temp/10; ans = ans * 10 + rem; if (am = = n) {
Syso(P); Jelse E Syso (NP)

code

```
4
ന
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   int t = scn.nextInt();
   while (t-- > 0) {
        int n = scn.nextInt();
        System.out.println(armstrongNo(n));
}
public static boolean armstrongNo(int num) {
   // int digit = 0;
    // int temp1 = num;
    // while (temp1 > 0) {
           temp1 = temp1 / 10;
           digit++;
    int digit = 3;
   int ans = 0;
   int temp = num;
   while (num > 0) {
        int rem = num % 10;
        num = num / 10;
        ans = ans + (int)Math.pow(rem, digit);
    if (temp == ans) {
        return true;
    } else {
        return false;
    // return (temp == ans) ? true : false;
```

HW_Counting Smaller Numbers in an Array

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
       arr[i] = scn.nextInt();
   solve(arr, n);
public static void solve(int[] arr, int n) {
   for (int i = 0; i < n; i++) {
       int count = 0:
       for (int j = 0; j < n; j++) {
           if ( i != j && arr[i] > arr[j] ) {
                count++;
        System.out.print(count + " ");
```

Permutation? without Repetation

HW_calculator 36

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   int n = scn.nextInt();
   int[] arr = new int[n];
   for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
   int x = scn.nextInt();
   int[] ans = addOne(arr, n, x);
   for (int i = 0; i < ans.length; i++) {
        System.out.print(ans[i] + " ");
}
// main logic
public static int[] addOne(int[] a, int n, int s) {
    for(int i=n-1;i>=0;i--){
        int ans=a[i]+s;
        a[i]=ans%10;
        s=ans/10;
   if(s == 1){
        int[] ans = new int[n + 1];
    ans[0] = 1;
       for (int i = n - 1; i >= 📭; i--) {
            ans[i + 1] = a[i];
        return ans;
    return a;
```

