Quel 3 2 0 permutation (n-1) 4,2 5,2 5,3 4,3 3,3 5,4 4,4

$$N = 5;$$

## simple

#### neverse

for (int i = n-1; i >= 0; i--){

for (int j = n-1; j >= 0; j--){

for (int j = n-1; j >= 0; j--){

,

#### HW\_Print Sum of Elements Except Itself

$$\dot{c}=0$$
,  $am=$ 

int 
$$sum = 2+7+8+9 = 26$$
  
i=0,  $cus = sum - 2 = 24$   
i=1,  $cus = sum - 7 = 19$   
i=2,  $cus = sum - 8 = 18$ 

ans = sum - 9 = 17

```
code
```

```
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();
   sumExceptItself(arr, n); fn calling
public static void sumExceptItself(int[] arr, int n) {
   int sum = 0;
   for (int i = 0; i < n; i++) {
        sum = sum + arr[i];
   for (int i = 0; i < n; i++) {
        int ans = sum - arr[i];
        System.out.println(ans);
```

### **Product of Elements Except Itself**

or 
$$253$$

product =  $0 \times 5 \times 3 = 30$ 

$$i = 0$$
, and = product / aron [i] =  $30/2 = 15$   
 $i = 1$ , and =  $30/5 = 6$   
 $i = 2$ , and =  $30/3 = 10$ 

```
i = 0; can = 0/5 = 0

i = 1; can = 0/3 = 0

i = 2; can = 0/0 = 0
```

```
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) {
   int prod = 1;
   for (int i = 0; i < n; i++) {
        prod = prod * arr[i];
   for (int i = 0; i < n; i++) {
        int ans = prod / arr[i];
        System.out.println(ans);
```

#### Find all Combination

ory 
$$n=5$$

yun over  $1 | 2 | 3 | 4 | 5$ 
 $K = 8$ 
 $target = 3+5 = 8$ 
 $target = 4+4 = 8$ 

# Combinations

$$1,1=2$$
  $2,2=4$   
 $1,2=3$   $2,3=5$   
 $1,3=4$   $2,4=6$   
 $1,4=5$   $2,5=7$   
 $1,5=6$ 

#### Find all Combination

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
                                                              i = 0, i = 0 sum = 2+2=4 false
    int n = scn.nextInt();
    int[] arr = new int[n];
                                                                             Jum = 5
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
                                                                     j=2 sun=6
                                                                             sum = 7 (2,5)
    int k = scn.nextInt();
    solve(arr, n, k);
                                                                              sum = 6
                                                                             sum = 7 (3, 4)
public static void solve(int[] arr, int n, int k) {
  for (int i = 0; i < n; i++) {
                                                                               sum = 8
     for (int j = i; j < n; j++) {
   if ( arr[i] + arr[j] == k ) {
      System.out.println(arr[i] + " " + arr[j]);</pre>
                                                                            sm= 8
                                                               (=a), j=a
                                                                             sum = 9
                                                                            sum = 10
```

y ways

Combination with

repetation (i=0, j=i)

Combination without repetation (î=0, j=i+1)

Pormutation with repetation (i=0, j=0)

Pormutation without repetation (i=0, j=0)

check (i !=j)

#### **Greater Than Me**

