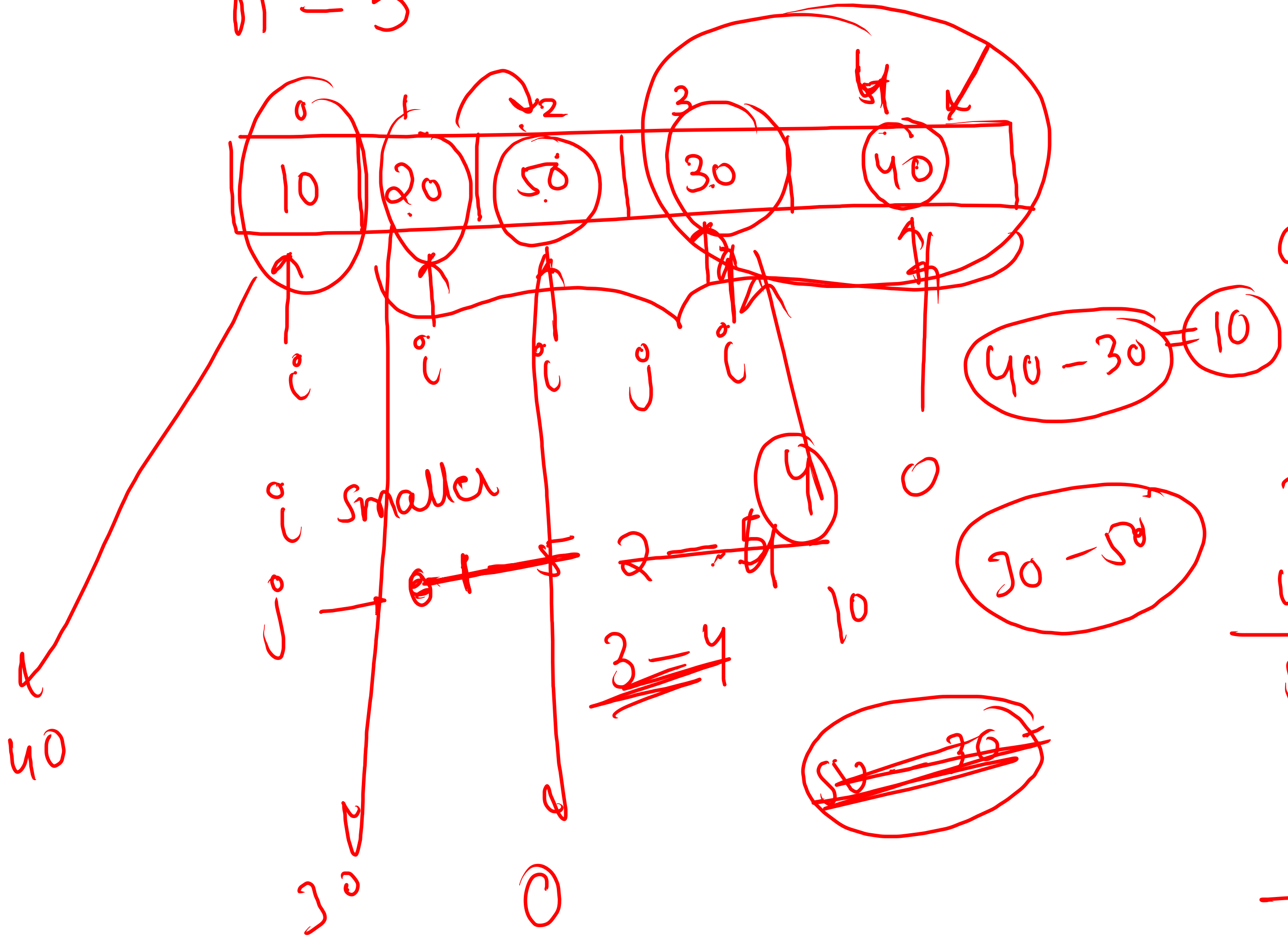
Q4

↳ unable to understand que → read que ~~eg~~

↳ unable to find approch → practice

↳ ——— code → dry run

$n = 5$



$20 - 10 = 10$

$arr[j] - arr[i]$

$50 - 10 = 40$ ←

$30 - 10 = 20$

$40 - 10 = 30$

$50 - 20 = 30$ ←

$30 - 20 = 10$

$40 - 20 = 20$

ch.getNum() - C

Math.abs(____)

(A-Z) 65 - 90

(a-z) 97 - 122

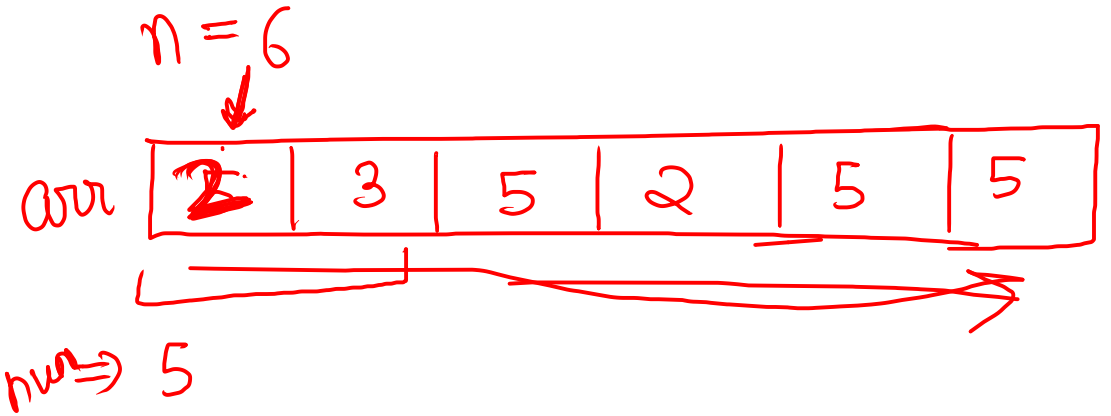
Math.sqrt(25)

5

HW_Find Difference 2

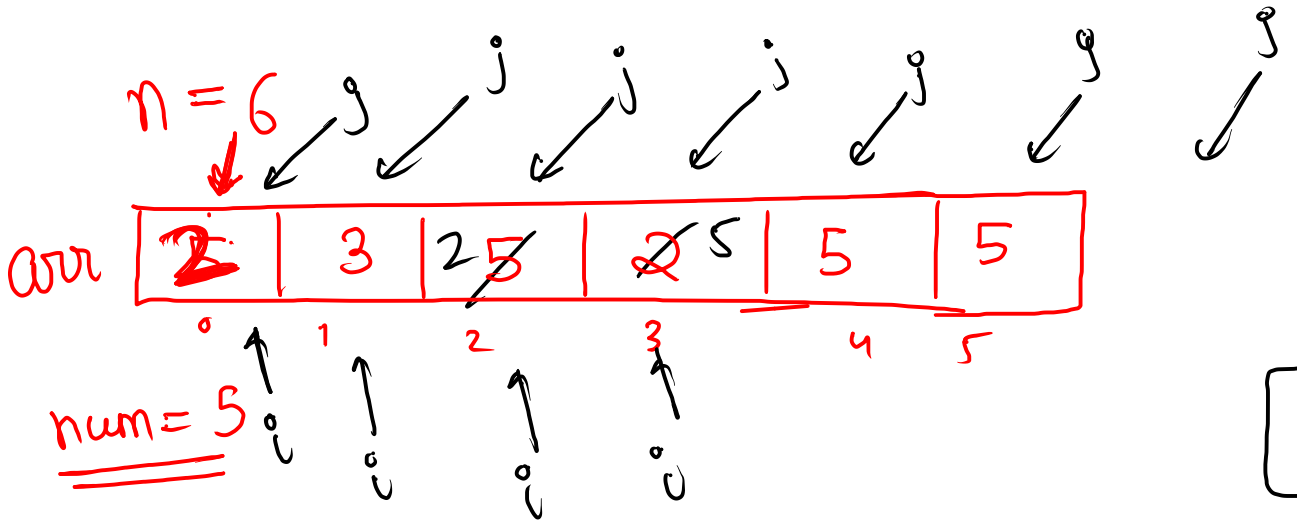
```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }
    int k = scn.nextInt();
    solve(arr, n, k);
}

public static void solve(int[] arr, int n, int k) {
    for (int i = 0; i < n; i++) {
        for (int j = i + 1; j < n; j++) {
            int ans = Math.abs(arr[i] - arr[j]);
            if (ans == k) {
                System.out.println(arr[i] + " " + arr[j]);
            }
        }
    }
}
```



C = 0

in-place :- use or modify the original array only
(should not create another array)

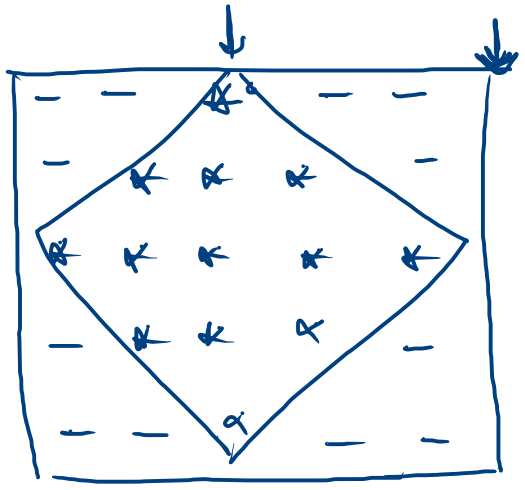


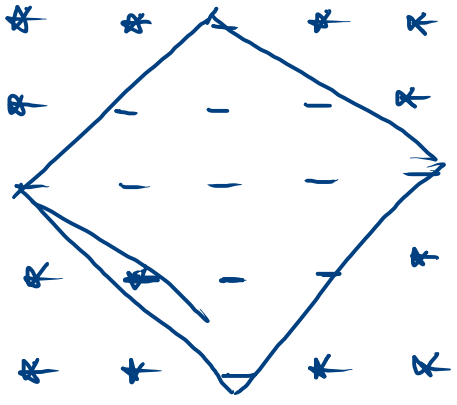
2 3 2

2 pointer approach

i = 0, j = 0

```
if arr[j] == num
    j++
else
    swap(arr[i], arr[j])
    i++, j++;
```





hollow diamond