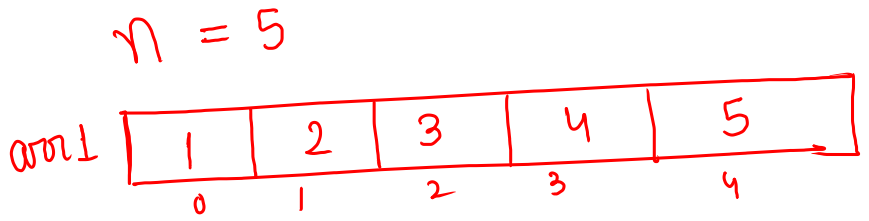
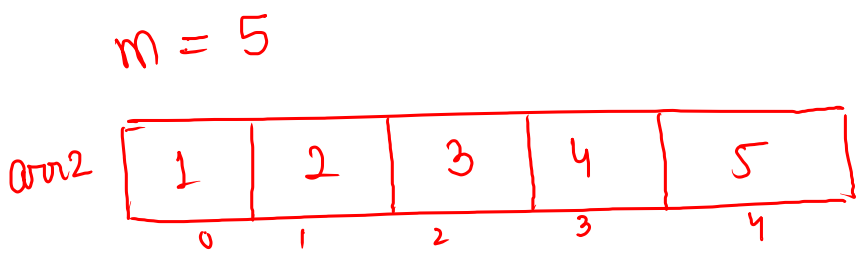
Check if two arrays are identical?





2 arrays are equal when all values inside it are also equal and at the same index as well

Check
- equal length
- equal values
- at same indexes

Code

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int arr1[] = new int[n];
    for (int i = 0; i < n; i++) {
        arr1[i] = scn.nextInt();
    }

    int m = scn.nextInt();
    int arr2[] = new int[m];
    for (int i = 0; i < m; i++) {
        arr2[i] = scn.nextInt();
    }

    // main logic
    isIdentical(arr1, arr2, n, m); // fn calling
}

public static void isIdentical(int[] arr1, int[] arr2, int n, int m) {
    if ( n == m ) {

        for (int i = 0; i < n; i++) {
            if ( arr1[i] != arr2[i] ) {
                System.out.println(false);
                return;
            }
        }
        System.out.println(true);

    } else {
        System.out.println(false);
    }
}
```

n = 5

arr1

5	3	1	4	5
0	1	2	3	

m = 5

arr2

5	3	1	2	5
0	1	2	3	

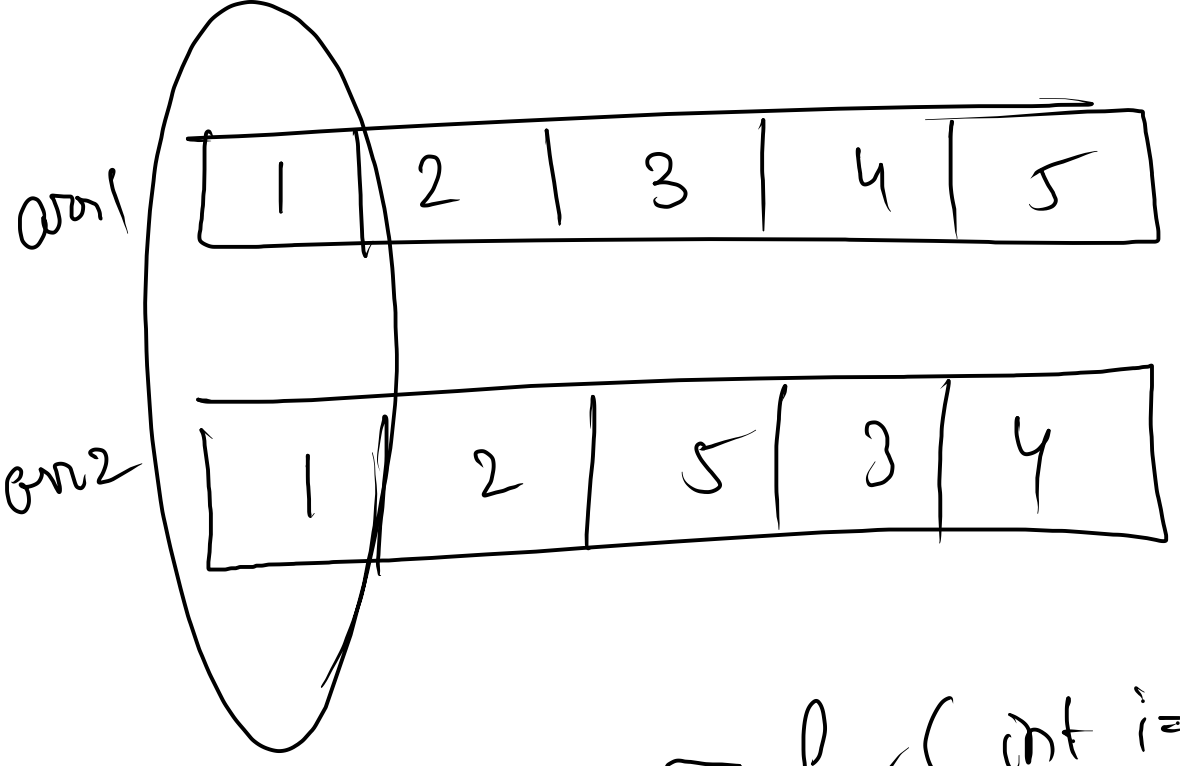
i = 0, 5 != 5 ✗

i = 1, 3 != 3 ✗

i = 2, 1 != 1 ✗

→ i = 3, 4 != 2 ✓

Output :- false



output

true

```
for(int i=0; i<n; i++){
    if(arr1[i] == arr2[i]){
        Syso(true);
        Return;
    }
}
Syso(false);
```

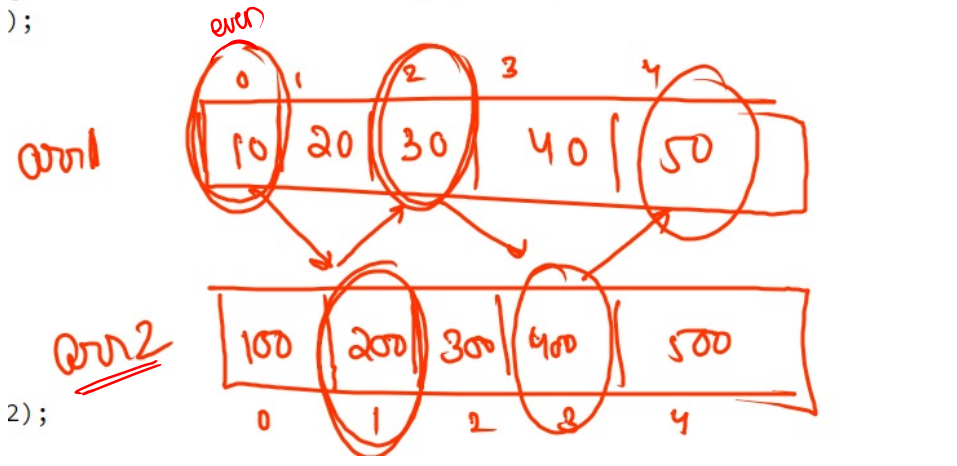
Print two arrays alternately

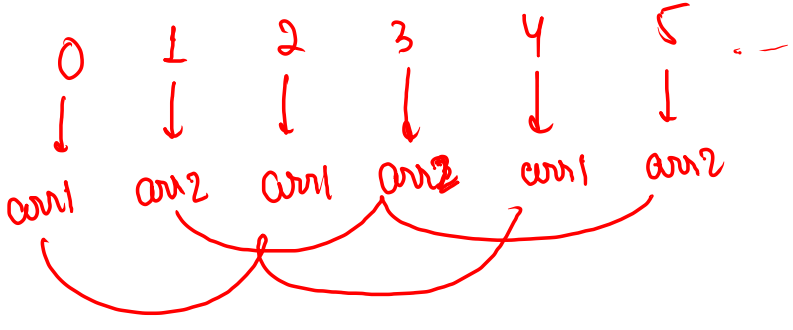
(if index is even, print element from arr1)
(if index is odd, print element from arr2)

dry run

output

10 200 30 400 50





code

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr1 = new int[n];
    for (int i = 0; i < n; i++) {
        arr1[i] = scn.nextInt();
    }

    int[] arr2 = new int[n];
    for (int i = 0; i < n; i++) {
        arr2[i] = scn.nextInt();
    }

    printAlternateElements(n, arr1, arr2);
}

public static void printAlternateElements( int n, int[] arr1, int[] arr2 ) {
    for (int i = 0; i < n; i++) {
        if ( i % 2 == 0 ) {
            System.out.print(arr1[i] + " ");
        } else {
            System.out.print(arr2[i] + " ");
        }
    }
}
```

i % 2 == 0 → even

⇒ Searching

Check if x is present in array or not

```java
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 target = scn.nextInt();

    // main logic
    findTarget(n, arr, target);
}

public static void findTarget(int n, int[] arr, int target) {
    for (int i = 0; i < n; i++) {
        if ( arr[i] == target ) {
            System.out.println("True");
            return;
        }
    }
    System.out.println("False");
}
```

n = 5

arr

10	12	13	16	20
0	1	2	3	4

target = 8

i = 0, 10 == 8 ✗

i = 1, 12 == 8 ✗

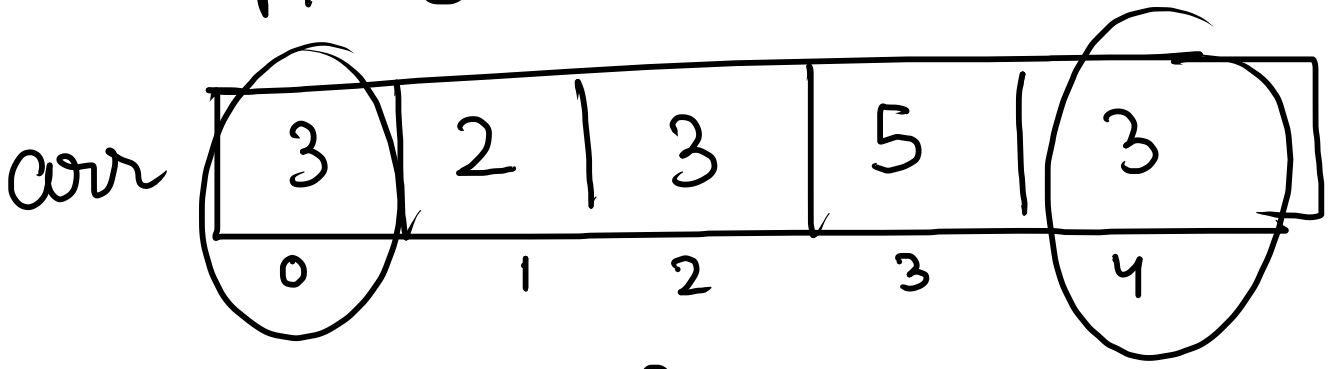
i = 2, 13 == 8 ✗

i = 3, 16 == 8 ✗

i = 4, 20 == 8 ✗

output :- False

n = 5



target = 3

ans = 0 first idex

ans = 4 last idex