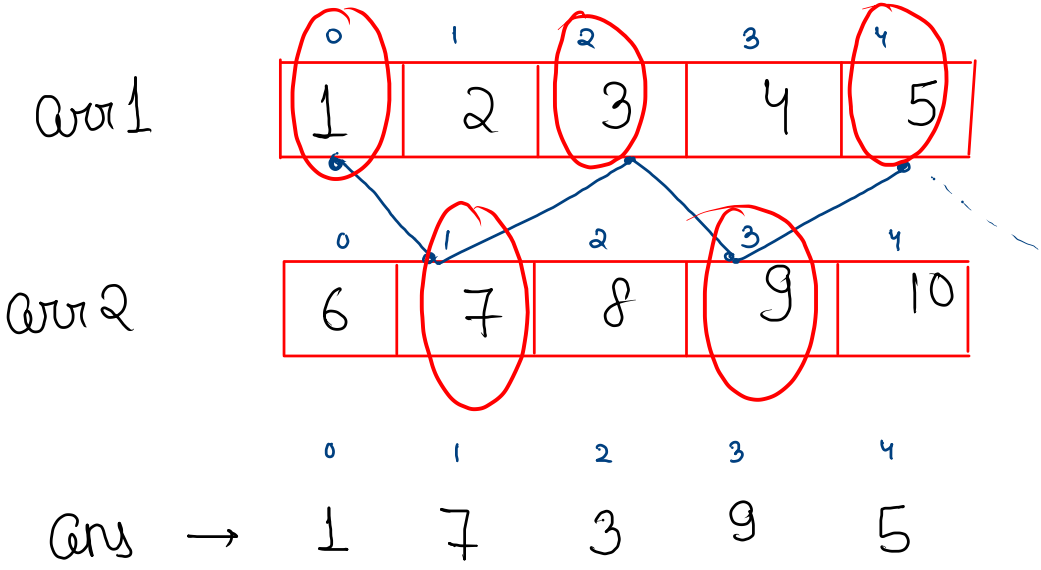
Print two arrays alternately




```
for( int i=0 ; i < n ; i++){
    if ( i % 2 == 0){
        Syso ( arr1[i]);
    } else {
        Syso ( arr2[i]);
    }
}
```

→ Code

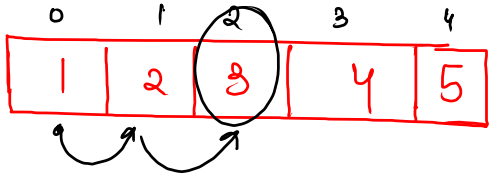
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr1 = new int[n];
    for (int i = 0; i < n; i++) {
        arr1[i] = scn.nextInt();
    }

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

    alternateArray(arr1, arr2, n);
}
public static void alternateArray(int[] arr1, int[] arr2, int n) {

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

}
```

⇒ Searching in array

Check if x is present in array or not

int n = 5

int arr



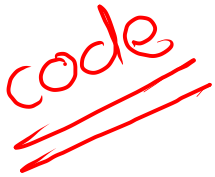
int x = 3

i=0, arr[0] == x ✗

i=1, arr[1] == x ✗

i=2, arr[2] == x ✓

print true



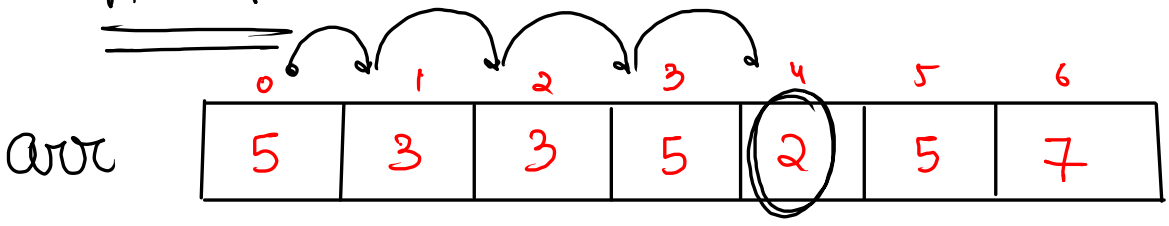

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] arr = new int[n];
    for (int i = 0; i < n; i++) {
        arr[i] = scn.nextInt();
    }
    int x = scn.nextInt();
    boolean ans = find(n, arr, x);
    if ( ans == true ) {
        System.out.println("True");
    } else {
        System.out.println("False");
    }
}
public static boolean find(int n, int[] arr, int x) {
    for (int i = 0; i < n; i++) {
        if ( arr[i] == x ) {
            return true;
        }
    }
    return false;
}
```

Print first index of x in array

i ⟶ index

arr[i] ⟶ value

n = 7



target = ~~5~~ ~~8~~ 2 (-1)

```
for( int i=0 ; i<n ; i++){
    if( arr[i] == target){
        return i;
    }
}
```

⟶ return -1 ;

Code

```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();

    int ans = findFirstIndex(n, arr, target);
    System.out.println(ans);
}
public static int findFirstIndex(int n, int[] arr, int target) {
    for (int i = 0; i < n; i++) {
        if ( arr[i] == target ) {
            return i;
        }
    }
    return -1;
}
```

```java
public static void findFirstIndex(int n, int[] arr, int targe
    for (int i = 0; i < n; i++) {
        if ( arr[i] == target ) {
            System.out.println(i);
            return;
        }
    }
    System.out.println(-1);
}
```