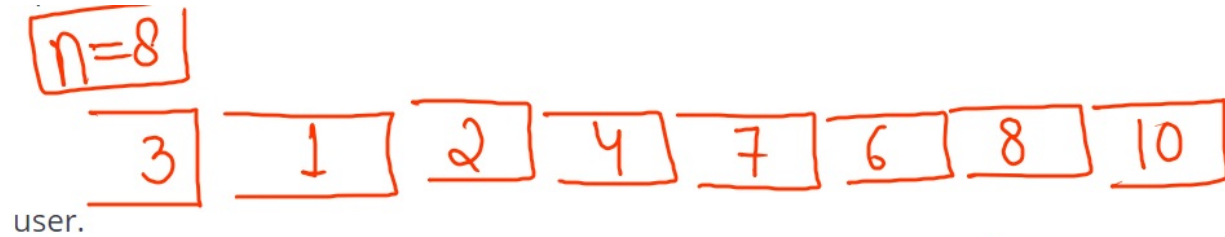


# Print steps and update maximum

pseudo code

```
int n = scn.nextInt();  
int max = -100;  
int step = 0;  
for (int i = 0; i < n; i++) {  
    int val = scn.nextInt();  
    if (val > max) {  
        step++;  
        max = val;  
    }  
    Syso (steps);  
}
```

dry run



steps = ~~0~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5 ✓  
max = ~~-100~~ ~~3~~ ~~4~~ ~~7~~ ~~8~~ 10

$$\text{int rem} = 1234 \% 10 = 4$$

$$n = 1234 / 10 = 123$$

$$\begin{aligned} \text{ans} &= 0 * 10 + 4 \\ &= 4 \end{aligned}$$

---

$$\text{int rem} = 123 \% 10 = 3$$

$$n = 123 / 10 = 12$$

$$\begin{aligned} \text{ans} &= 4 * 10 + 3 \\ &= 43 \end{aligned}$$

---

$$\text{int rem} = 12 \% 10 = 2$$

$$n = 12 / 10 = 1$$

$$\begin{aligned} \text{ans} &= 43 * 10 + 2 \\ &= 432 \end{aligned}$$

---

$$\text{int rem} = 1 \% 10 = 1$$

$$(n = 1 / 10 = 0)$$

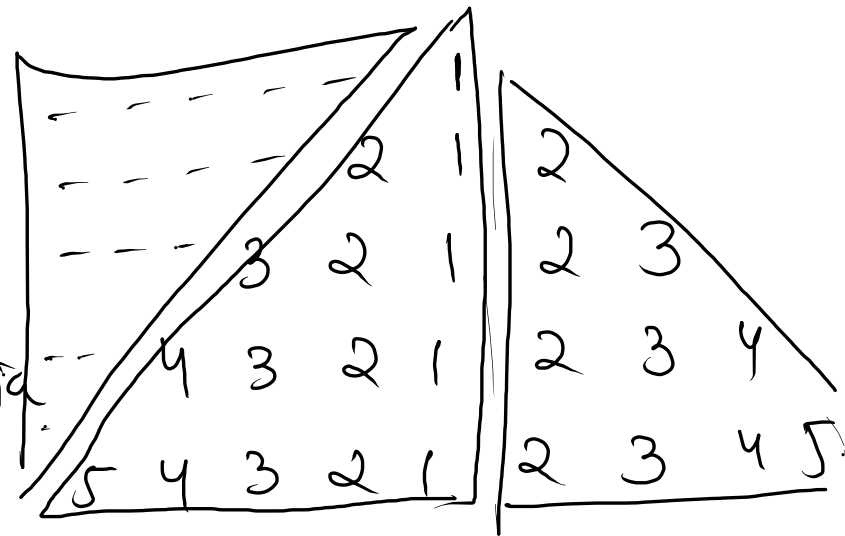
$$\begin{aligned} \text{ans} &= 432 * 10 + 1 \\ (\text{ans} &= 4321) \end{aligned}$$

int sp = \_\_\_\_  
int st = \_\_\_\_  
for ( \_\_\_\_\_ ) {

rows

for ( \_\_\_\_\_ ) spaces  
for ( \_\_\_\_\_ ) half tri  
for ( \_\_\_\_\_ ) half

}



# Swap x and y

```
public static void main(String[] args) {  
    /* Enter your code here. Read input from STDIN. Print output to :  
    Scanner scn = new Scanner(System.in);  
    int x = scn.nextInt();  
    int y = scn.nextInt();  
  
    // main logic  
    solve(x, y);    // function calling  
}  
  
public static void solve(int x, int y) {    // function declaration  
    int c = x;  
    System.out.println("c = " + c);  
  
    x = y;  
    System.out.println("x = " + x);  
  
    y = c;  
    System.out.println("y = " + y);  
  
    System.out.println("x = " + x);  
    System.out.println("y = " + y);  
}
```

# HW\_print all even number

```
public static void main(String[] args) {  
    Scanner scn = new Scanner(System.in);  
    int t = scn.nextInt();  
    for (int i = 0; i < t; i++) {  
        int x = scn.nextInt();  
        int y = scn.nextInt();  
        solve(x, y);  
    }  
}  
  
public static void solve(int x, int y) {  
    for (int i = x; i <= y; i++) {  
        if (i % 2 == 0) {  
            System.out.print(i + " ");  
        }  
    }  
    System.out.println();  
}
```