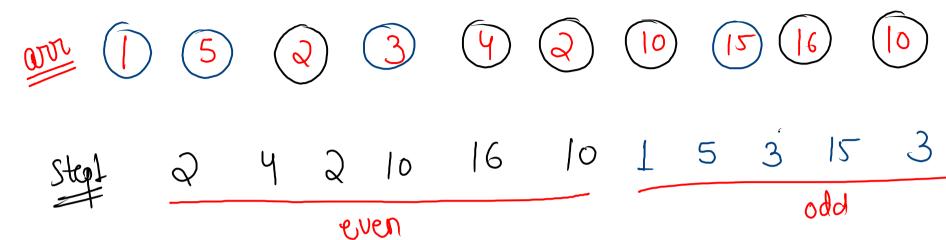
Juestions
Jic Tac Toe

Reverse by words

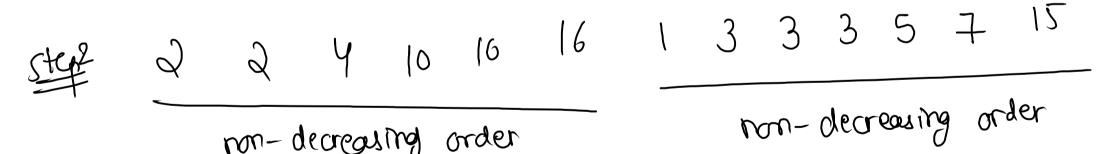
Spiral matrix

## Sort Array By Parity

Given an integer array nums [], move all the even integers at the beginning of the array followed by all the odd integers in non- decreasing order.



non-decreasing order



Code

## <u>Y case</u>: - both even, both odd, y 4 one even one odd

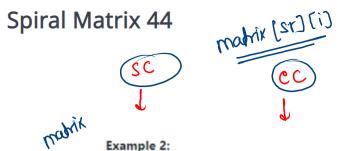
```
// main logic
Arrays.sort(arr, (a, b) -> {
if (a % 2 == 0 && b % 2 == 0) { // both are even return a - b; // increasing order
else if ( a % 2 != 0 && b % 2 != 0 ) { // both are odd
       return a - b; // increasing order
} else if ( a % 2 == 0 && b % 2 != 0 ) { // a == even, b == odd
       return -1; // bring A first
} else { // a == odd, b == even
       return 1; // bring B first
});
                         Case II & IV
                                case I
```

```
Duel It we went to sort owney in increasing order again but take odd values first and the even values
```

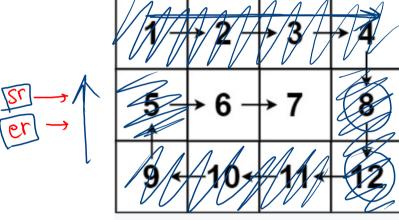
```
// main logic
Arrays.sort(arr, (a, b) -> {
    if (a % 2 == 0 && b % 2 == 0) {
                                                //both even
       return a - b;
                                                // increasing
    } else if ( a % 2 != 0 && b % 2 != 0 ) {
                                               // both odd
        return a - b;
                                                // increasing
    } else if (a \% 2 == 0 \&\& b \% 2 != 0) { // a == even, b == odd } d
                                                // bring & first (take even number first)
        return -1;
    } else {
                                                // a == odd, b == even
       return 1;
                                                // bring Afirst (take odd number first)
                                                                      even
});
```

best 0(1) (= 45 6 (D) worst 0(N) (= Jul find 1 in 2D arread best ()(1) (= worst care O(N2)

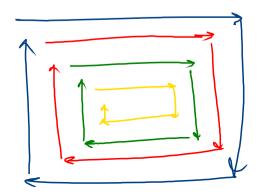
int n = scn. rext Int(); //T 1/120 //5M int[] our = new int[n]; SC. // O(U)intell[] orn = new int[n](n); SC- // (n2)



Example 2:



Input: matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12]] Output: [1,2,3,4,8,12,11,10,9,5,6,7]



```
int m = matrix.length;
int n = matrix[0].length;
int sr = 0; —
int sc = 0;
int ec = n - 1;
int total = m * n;
int count = 0;
while (count < total) {
   for (int i = sc; i <= ec && count < total i++) {
       ans.add(matrix[sr][i]);
      count++;
   ST++;
   for (int i = sr; i <= er && count < total i++) {
       ans.add(matrix[i][ec]);
       count++;
   ec--:
   for (int i = ec; i >= sc && count < total; i--) {
       ans.add(matrix[er][i]);
      count++;
   er--;
   for (int i = er; i >= sr && count < total; i--) {
       ans.add(matrix[i][sc]);
       count++;
    SC++;
return ans;
```

Public static int[] fun(\_\_\_)> main () {

int [] ans = fun ( \_\_\_\_);

Syso ( ans [0]); Syso ( ans [1]);