* Print elements in waveform :-

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

5×4

O/P :- 1 5 9 13 17 18 14 10 6 2 3

7 11 15 19 20 16 12 8 4

* Solution :-

Even coll → Up to down print

Odd col → Down to up print

```js
function printWaveForm(grid, rows, cols) {
    let str = "";
    for (let col = 0; col < cols; col++) {
        // Even col -> Up to down
        if (col % 2 == 0) {
            for (let row = 0; row < rows; row++) {
                str += grid[row][col] + " ";
            }
        } else {
            // Odd col -> Down to up
            for (let row = rows - 1; row >= 0; row--) {
                str += grid[row][col] + " ";
            }
        }
    }
    return str;
}

let grid = [
    [1, 2, 3, 4],
    [5, 6, 7, 8],
    [9, 10, 11, 12],
    [13, 14, 15, 16],
];

let rows = grid.length;
let cols = grid[0].length;

console.log(printWaveForm(grid, rows, cols));
```

```
[Running] node "/home/parth/Developer/DSA/test.js"
1 5 9 13 14 10 6 2 3 7 11 15 16 12 8 4
```