

| dir | row | col | arrow |
|-----|-----|-----|-------|
| 0   | --  | --  | ↖     |
| 1   | --  | ++  | ↗     |
| 2   | ++  | --  | ↙     |
| 3   | ++  | ++  | ↘     |

Start at  $d2[r][c]$

for rows inc/dec to  $d2.length-1$  or 0:

for cols inc/dec to  $d2[r].length-1$  or 0:

$d2[r][c] = value;$

break;

(when does the index of the inner loop increment? will break mess this up?)

} no, actually, this will populate a triangle, not a diagonal. → actually it's a rectangle  
/top  
use break;

First just code case 3.

Maybe this is just one loop - traverse rows (loop)

edit one value per row (not a loop)

what val gets edited in row  $r$ ?  $d2[r][c + \dots]$  ★