



## Input

Input contains at most 125 sets of inputs. But not all cases are extreme.

Each set of input contains five integers:  $N$  ( $0 < N \leq 20000$ ),  $row_1$ ,  $col_1$ ,  $row_2$ ,  $col_2$  ( $0 \leq row_1 \leq row_2 \leq 20000$ ,  $0 \leq col_1 \leq col_2 \leq 20000$ ,  $0 \leq (row_2 - row_1 + 1) * (col_2 - col_1 + 1) \leq 40000$ ). Here  $M$  denotes that the side length of the tiles used to draw the plane should be  $N$ . The meaning of  $row_1$ ,  $col_1$ ,  $row_2$ ,  $col_2$  are given in the problem statement.

The first sample input corresponds to the figure above.

Input is terminated by a line where the first integer is zero.

## Output

For each line of input produce  $(row_2 - row_1 + 2)$  lines of output. First line contains serial of output. Each of the next lines contain  $(col_2 - col_1 + 1)$  characters. These lines describe the patterns within the specified rows and columns. Look at the output for sample input for details. The output file size is less than 1 MB.

## Sample Input

```
5 3 18 10 46
100 50 50 69 69
0 2 3 4 5
```

## Sample Output

Case 1:

```
.edcbcede..edcbcede..edcbcede..e
edcbabcdeedcbabcdeedcbabcdeed
.edcbcede..edcbcede..edcbcede..e
..edcde....edcde....edcde....
...ede.....ede.....ede.....
....e.....e.....e.....
....e.....e.....e.....
...ede.....ede.....ede.....
```

Case 2:

```
utsrqponmlkjihgfedcb
tsrqponmlkjihgfedcba
srqponmlkjihgfedcbaz
rqponmlkjihgfedcbazy
qponmlkjihgfedcbazyx
ponmlkjihgfedcbazyxw
onmlkjihgfedcbazyxwv
nmlkjihgfedcbazyxwvu
mlkjihgfedcbazyxwvut
lkjihgfedcbazyxwvuts
kjihgfedcbazyxwvutsr
jihgfedcbazyxwvutsrq
ihgfedcbazyxwvutsrqp
hgfedcbazyxwvutsrqp
gfedcbazyxwvutsrqp
fedcbazyxwvutsrqpnm
edcbazyxwvutsrqpnm1
```

dcbazyxwvutsrqponmlk  
cbazyxwvutsrqponmlkj  
bazyxwvutsrqponmlkji