

ASCII diamonds can be drawn with integer side lengths. Each layer of this diamond is drawn with a single ASCII alphabet, starting with ‘a’ and ending with ‘z’ (starting from the center) and continues in cyclic order.

A diamond of length 5 can be used to draw such an infinite sequence.

Column Numbering												
0	.....	e.....	.....	e.....	.....	e.....	.....	e.....	.....	e.....	.....	e.
1	.....	.....	e.....	.....	.....	e.....	.....	.....	e.....	.....	.....	e.

bottommost row ( $row_2$ ) and rightmost column ( $col_2$ ) you have to print the pattern within these four boundaries (inclusive).

**Input**  
Input contains at most 125 sets of inputs. But not all cases are extreme.  
Each set of input contains five integers:  $N$  ( $0 < N \leq 20000$ ),  $row_1$ ,  $col_1$ ,  $row_2$ ,  $col_2$  ( $0 \leq row_1 \leq 20000$ ,  $0 \leq col_1 \leq 20000$ ,  $0 \leq row_2 \leq 20000$ ,  $0 \leq col_2 \leq 20000$ ).  $N$  is 15.

denote

$col_1, r$

The first sample input corresponds to the figure above.  
Input is terminated by a line where the first integer is zero.

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

Each of the next lines contain ( $col_2 - col_1 + 1$ ) characters. Specified rows and columns. Look at the output for sample.

declined rows and columns. Look at the output for sample input file `sample1.txt` which is less than 1 MB.

## Sample

**Sample Output**

Case 1:  
.edcbcde..edcb

.edcbcde..edcbo  
..edcde....edcc  
  eds  eds

.....e.....e..

Case 2:  
utsrqponmlkjihgfedcb  
tsrqponmlkjihgfedcba  
srqponmlkjihgfedcbaz  
rqponmlkjihgfedcbazy  
                  ll      f  l

qponmlk  
nponmlk

ponmlkjingfedcbaazyxwvutsrqponmlkj  
onmlkjihgfedcbaazyxwvutsrqponmlkj  
nmlkjihgfedcbaazyxwvutsrqponmlkj  
mlkjihgfedcbaazyxwvutsrqponmlkj  
lkjihgfedcbaazyxwvutsrqponmlkj  
kjihgfedcbaazyxwvutsrqponmlkj  
jihgfedcbaazyxwvutsrqponmlkj  
ihgfedcbaazyxwvutsrqponmlkj  
hgfedcbaazyxwvutsrqponmlkj  
gfedcbaazyxwvutsrqponmlkj  
fedcbaazyxwvutsrqponmlkj  
edcbaazyxwvutsrqponmlkj  
dcbaazyxwvutsrqponmlkj  
cbaazyxwvutsrqponmlkj  
bazyxwvutsrqponmlkj