

Alpha Pattern

Problem Description: You are given with an input number N, then you have to print the given pattern corresponding to that number N.

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For example if N=4
Pattern output :A
BB
CCC
DDDD
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How to approach?

- 1. Take N as input from the user.
- 2. Figure out the number of rows, (which is N here) and run a loop for that.
- 3. Now, figure out how many columns are to be printed in ith row and run a loop for that within this.
- 4. Now, figure out "What to print?" in a particular (row, column). It can depend on the column number, row number or N.

Pseudo code for the given problem:

- ☐ Let us dry run the Code for N=4
 - i=1(<=4)
 - → j=1 (<=1), so print 'A'.
 - \rightarrow j=2(>1), move out of the inner loop with a new line.



- i=2(<=4)
 - \rightarrow j=1 (<=2), so print 'B'.
 - \rightarrow j=2 (<=2), so print 'B'.
 - \rightarrow j=3(>2), move out of the inner loop with a new line.
- i=3(<=4)
 - \rightarrow j=1 (<=3), so print 'C'
 - \rightarrow j=2 (<=3), so print 'C'
 - \rightarrow j=3 (<=3), so print 'C'
 - \rightarrow j=4(>3), move out of the inner loop with a new line.
- i=4(<=4)
 - \rightarrow j=1 (<=4), so print 'D'
 - \rightarrow j=2 (<=4), so print 'D'
 - \rightarrow j=3 (<=4), so print 'D'
 - → j=4 (<=4), so print 'D'
 - \rightarrow j=5(>4), move out of the inner loop with a new line.
- i=5(>4), move out of the loop

So, final output:

A

BB

CCC

DDDD

