

Triangle Star Pattern

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

For example if N=4
Pattern output: *

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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 there in ith row and run a loop for that within this.
- 4. Now, figure out "What to print?" in a particular (row, column). Here we have to print "*"

Pseudo code for the given problem:

```
input=N
i=1
While i is less than or equal to N:
j=1
While j is less than or equal to i:
print("*")
Increment j by 1
Increment i by 1
Add a new line here
```

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



- → j=1 (<=2), so print "*"
- → j=2 (<=2), so print "*"
- \rightarrow j=3(>2), move out of the inner loop with a new line
- i=3(<=4)
 - \rightarrow j=1(<=3), so print "*"
 - → j=2(<=3), so print "*"
 - \rightarrow j=3(<=3), so print "*"
 - \rightarrow j=4(>3), move out of the inner loop with a new line
- i=4(<=4)
 - → j=1(<=4), so print "*"
 - → j=2(<=4), so print "*"
 - → j=3(<=4), so print "*"
 - → j=4(<=4), so print "*"
 - \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:

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