

Practice 5: Loops

1) Write code to print out a picture like the following, where the number of rows is given by the int variable ROWS:

```
1
22
333
4444
55555
```

2) The logstar of a number is how many times one needs to take the natural log before the result is 1 or less. For example, logstar of 10 is 2, since $\ln(10) = 2.303$ and $\ln(2.303) = 0.834$. In general, a number between 1 and e has logstar=1, a number between e and e^e has logstar=2, etc.

Provide code that calculates the logstar of a number given by the float variable ARG. Note that the C function `log()` calculates the natural log of its argument.