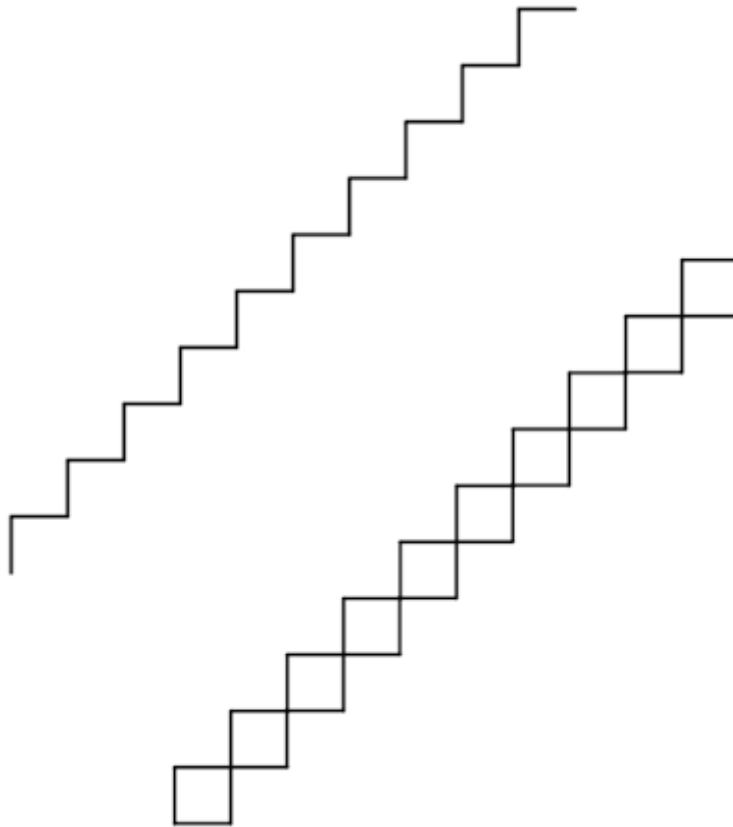


“Turtle Tuesday” Logo Challenges

September 5, 2023

Challenge No. 49

Can you draw this staircase in Logo using REPEAT?
And then use the same instruction again to turn them into boxes?



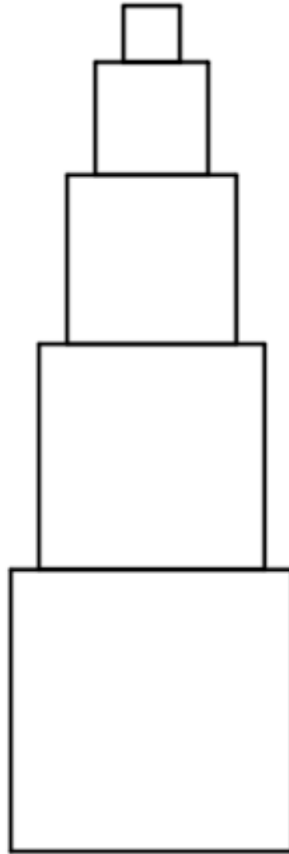
Our solution:

```
PU SETPOS [-300 -300] PD  
REPEAT 10 [FD 50 RT 90 FD 50 LT 90]  
RT 180  
REPEAT 10 [FD 50 RT 90 FD 50 LT 90]
```

September 12, 2023

Challenge No. 50

Can you draw this tower of boxes in Logo?



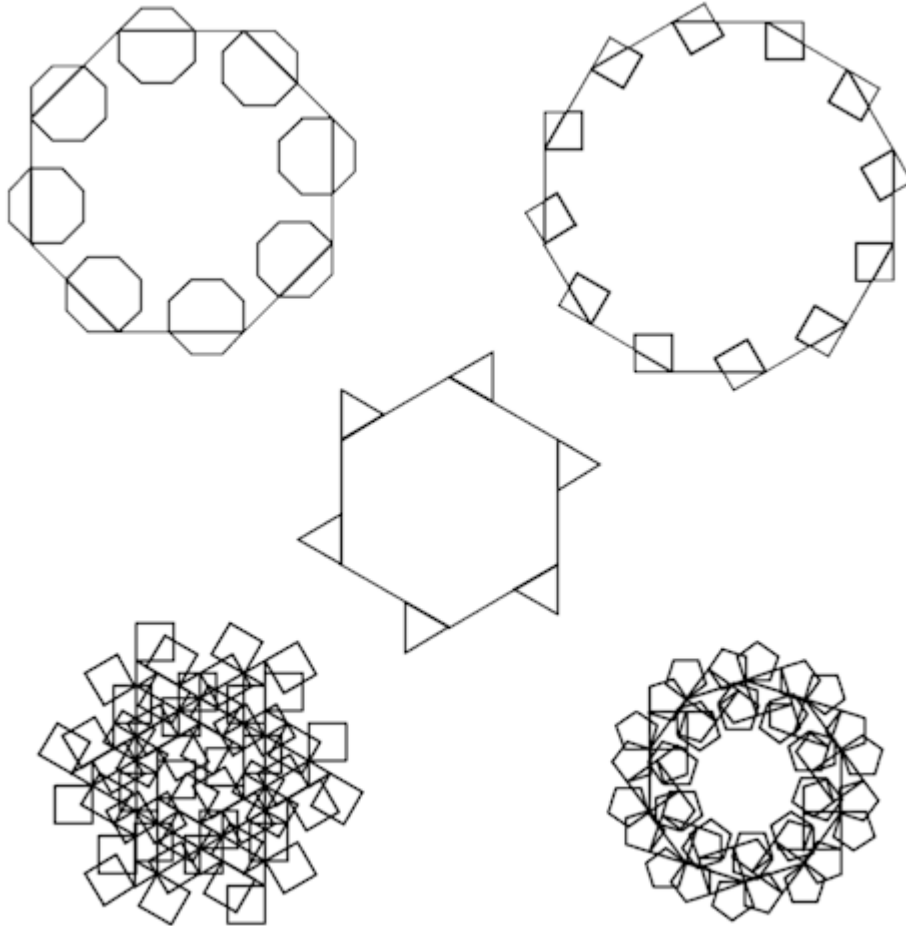
Our solution:

```
REPEAT 4 [FD 200 RT 90]
PU FD 200 RT 90 FD 20 LT 90 PD
REPEAT 4 [FD 160 RT 90]
PU FD 160 RT 90 FD 20 LT 90 PD
REPEAT 4 [FD 120 RT 90]
PU FD 120 RT 90 FD 20 LT 90 PD
REPEAT 4 [FD 80 RT 90 ]
PU FD 80 RT 90 FD 20 LT 90 PD
REPEAT 4 [FD 40 RT 90 ]
```

September 19, 2023

Challenge No. 51

Can you these designs in Logo?
Use nested REPEATS (one REPEAT inside another REPEAT).



Our solutions:

```
REPEAT 8 [FD 100 REPEAT 8 [FD 25 RT 45] RT 45]
```

```
REPEAT 12 [FD 75 REPEAT 4 [FD 30 RT 90] RT 30]
```

```
REPEAT 6 [FD 100 REPEAT 3 [FD 40 RT 120] RT 60]
```

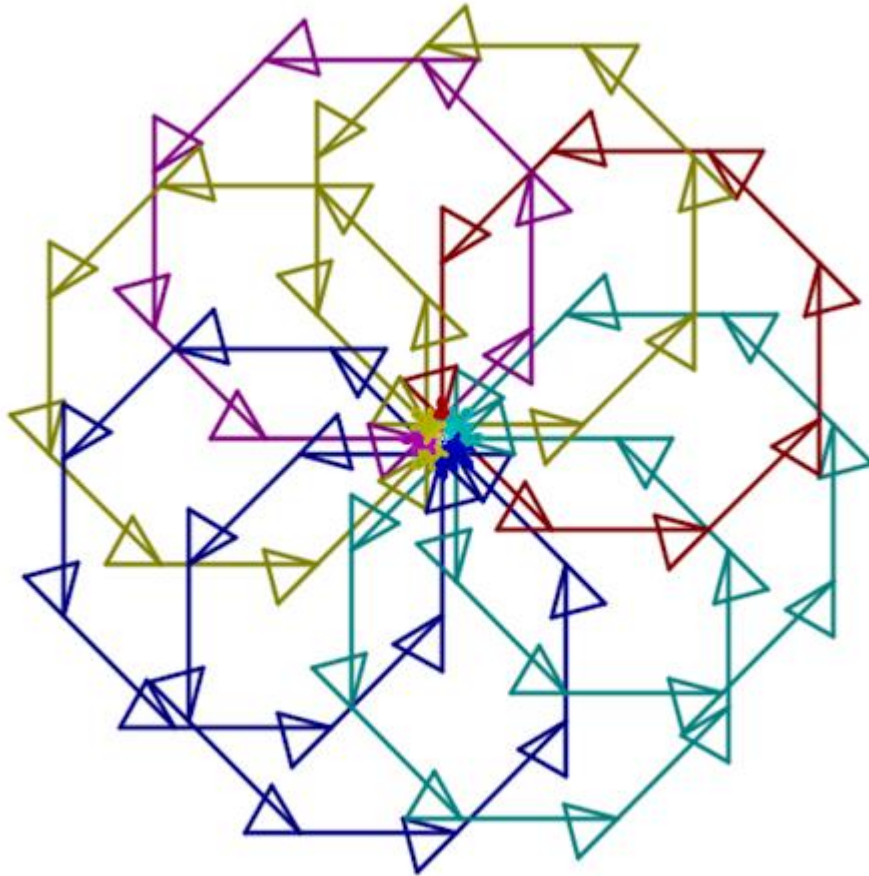
```
REPEAT 6 [FD 60 REPEAT 3 [FD 40 REPEAT 3 [FD 20 REPEAT 4 [FD 30 RT 90] RT 120] RT 120] RT 60]
```

```
REPEAT 10 [FD 50 REPEAT 4 [FD 30 REPEAT 5 [FD 20 RT 72] RT 90] RT 36]
```

September 26, 2023

Challenge No. 52

Can you draw this design in Logo?
This one uses multiple turtles and nested REPEATs.



Our solution:

```
CTURTLES 8
```

```
EACH [SETPC RANDOM 8]
```

```
SETW 3
```

```
REPEAT 8 [FD 100 REPEAT 3 [FD 35 RT 120] RT 45]
```