"Turtle Tuesday" Logo Challenges

Fun awaits you with this month's challenges that feature nested REPEAT loops!

An instruction with nested REPEATs has a REPEAT instruction inside another REPEAT instruction.
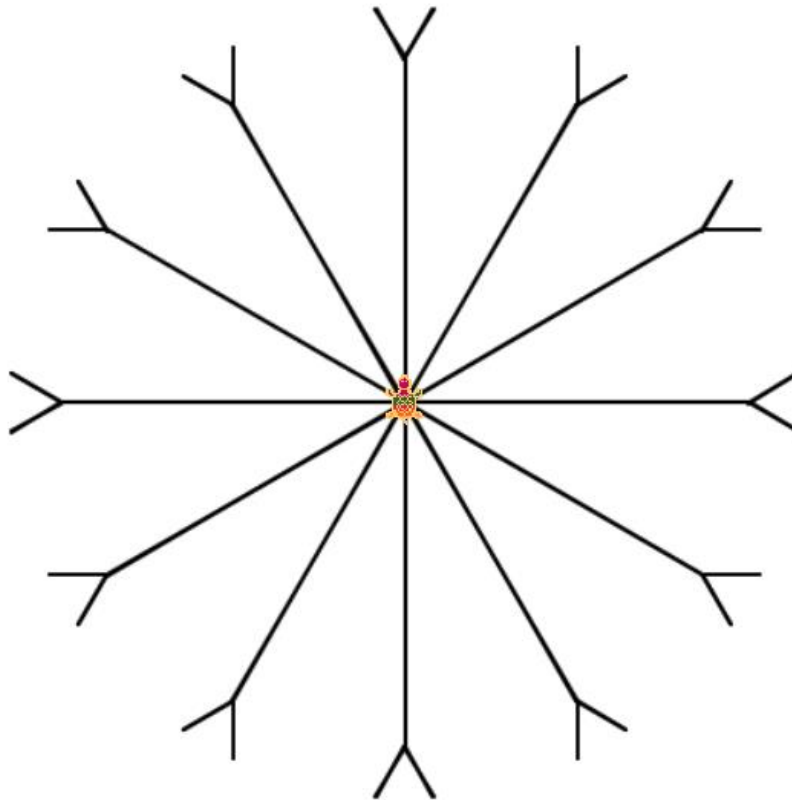You'll see how it works as the month proceeds!

April 1, 2025

Challenge No. 131

For Logo, Pro-Bot, InO-Bot and *Kinderlogo* (Level 5) users

Let's start with using just **ONE** REPEAT instruction.

Can you use REPEAT to create this design?

Our Solution:

One REPEAT:

```
REPEAT 12 [FD 180 LT 30 FD 30 BK 30 RT 60 FD 30 BK 30 LT 30 BK 180 RT 30]
```
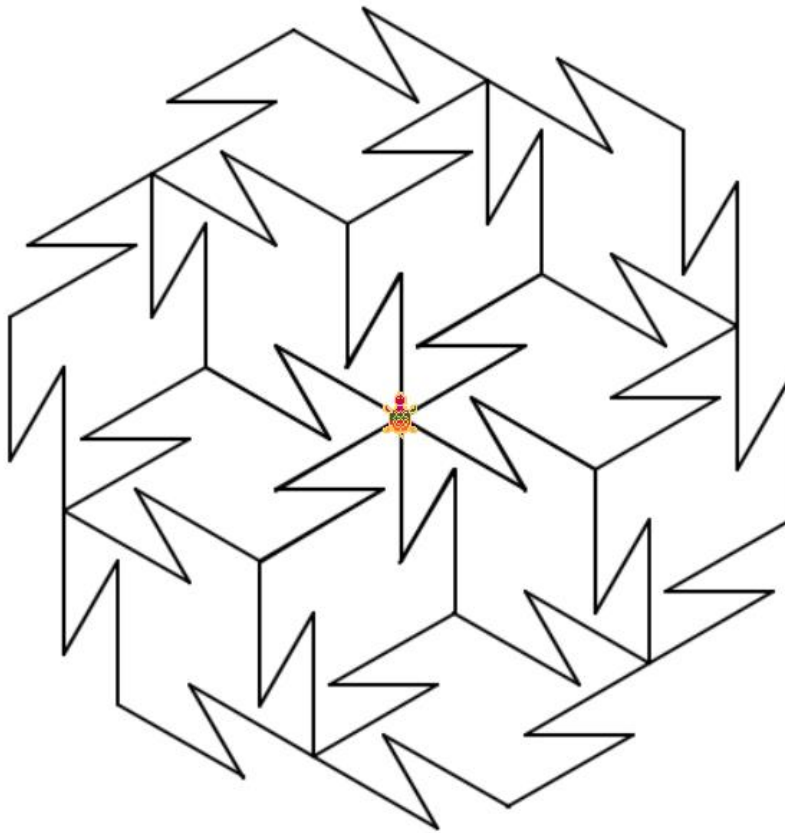
Challenge No. 132

For Logo, Pro-Bot, InO-Bot and *Kinderlogo* (Level 5) users

Now let's try a REPEAT instruction inside another REPEAT instruction.

Can you use nested REPEATs, **TWO** in all, to create this design?

Or you can just create a different design that uses two nested REPEATs.

Our Solution:

Two REPEATs:

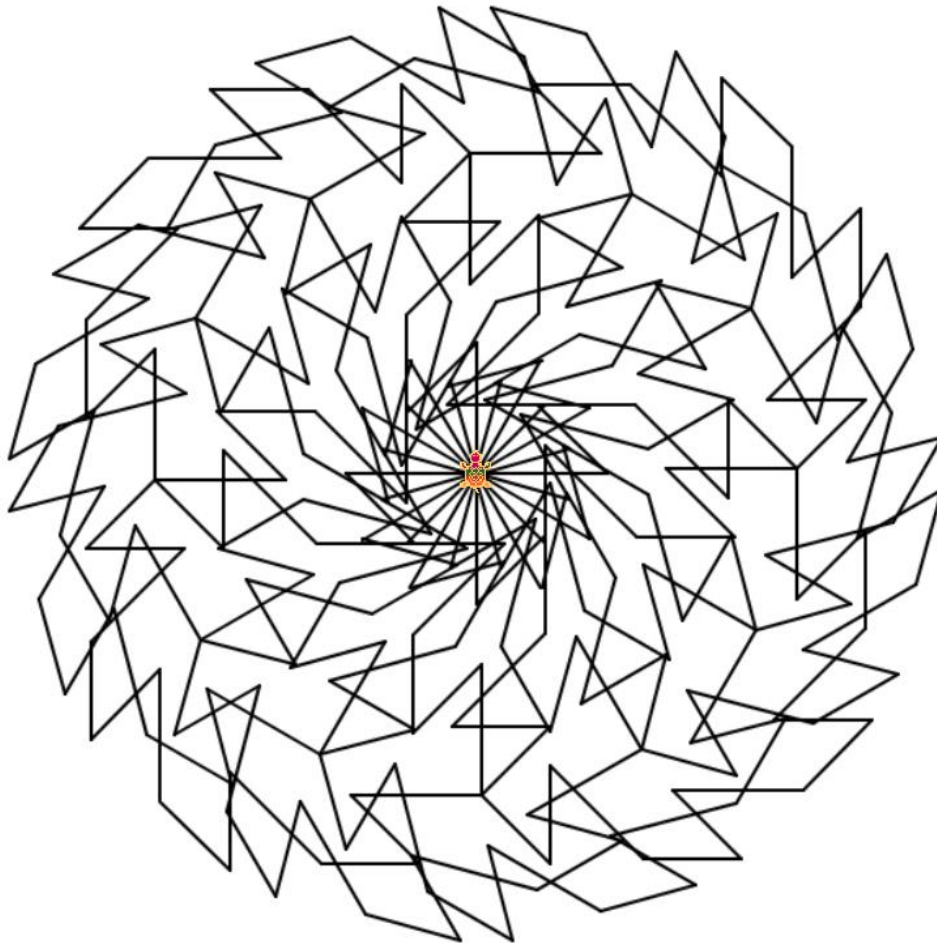REPEAT 6 [REPEAT 6 [FD 80 RT 30 BK 60 LT 30 FD 80 RT 60] RT 60]

Challenge No. 133

For Logo, Pro-Bot, and InO-Bot users

Now let's try even more nested REPEAT instructions.

Can you use **THREE** nested REPEATs to create this design?

Or you can just create a different design that has 3 nested REPEATs.

Our Solution:

Three REPEATs:

```
REPEAT 3 [REPEAT 4 [REPEAT 8 [FD 80 RT 45 BK 60 LT 45 FD 60 RT 45]
    RT 90] RT 120]
```
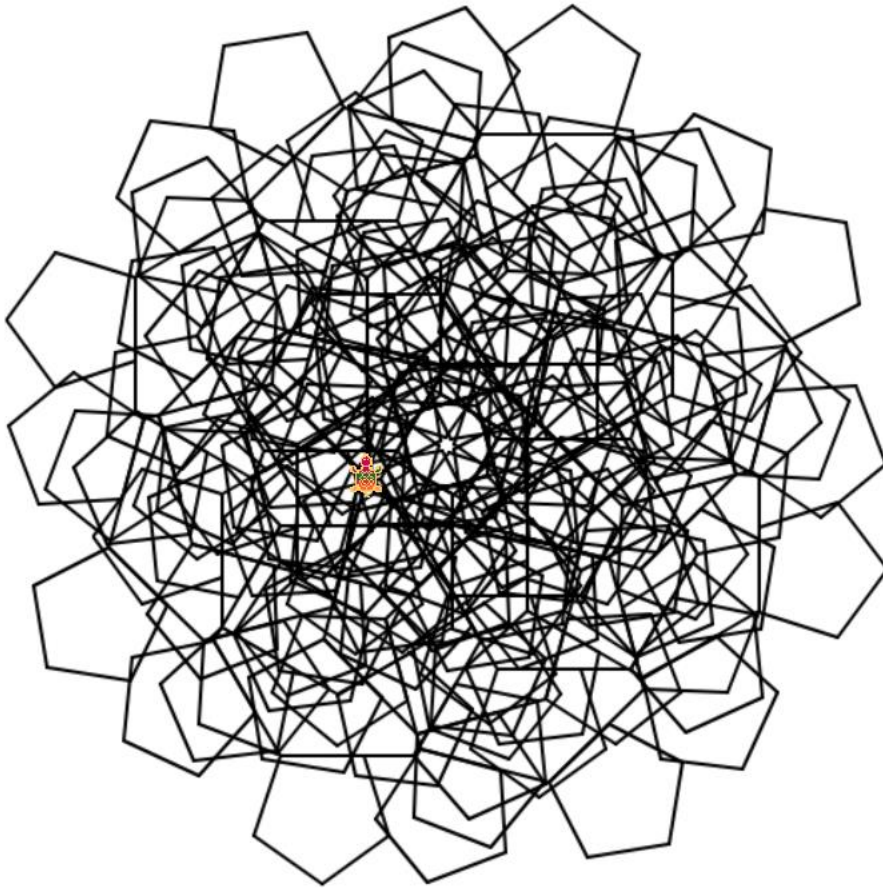
Challenge No. 134

For Logo, Pro-Bot, and InO-Bot users

Now let's try even more nested REPEAT instructions!

Can you use **FOUR** nested REPEATs to create this design?

Or you can just create a different design that has 4 nested REPEATs.

Our Solution:

Four REPEATs:

```
REPEAT 8 [FD 40 REPEAT 3 [BK 20 REPEAT 6 [FD 80 REPEAT 5 [BK 50
    RT 72] RT 60] RT 120] RT 45]
```
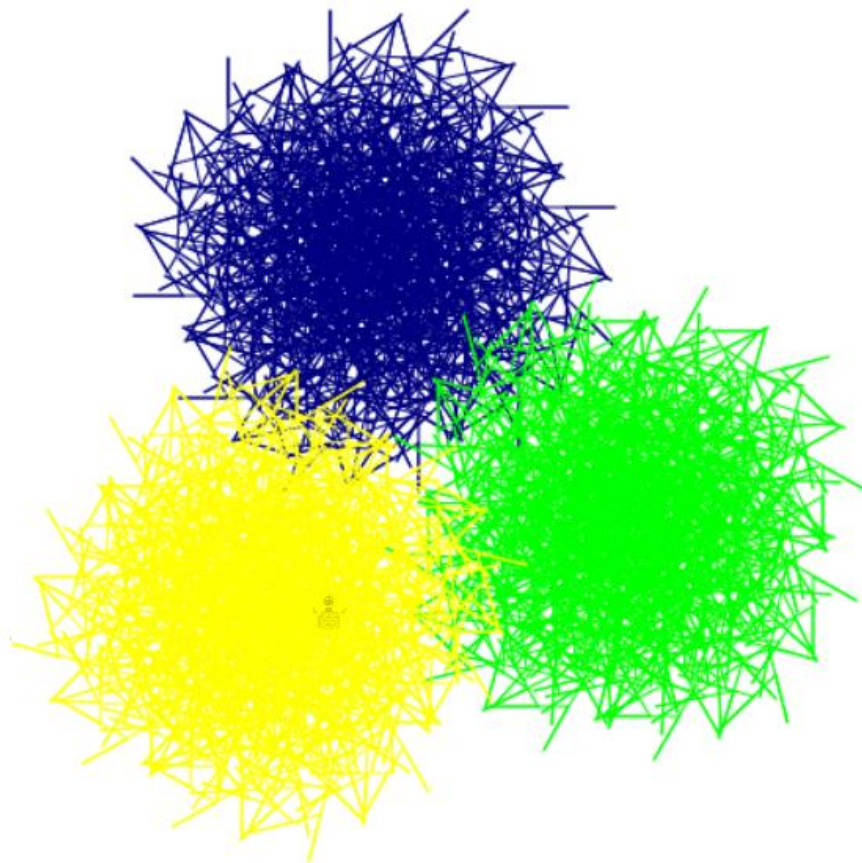
Challenge No. 135

For Logo, Pro-Bot, and InO-Bot users

Now let's try even more nested REPEAT instructions!

Can you use **FIVE** nested REPEAT to create this design?

Or you can just create a different design that has 5 nested REPEATs.

Using `SETPC (RANDOM 15) − 1` ensures that white isn't chosen as a color.

Our Solution:

Five REPEATs:

```
REPEAT 3 [SETPC (RANDOM 15) − 1 PU FD 240 PD BK 75 REPEAT 4 [FD
    80 BK 35 REPEAT 8 [FD 30 REPEAT 5 [ FD 30 REPEAT 6 [FD 40 BK
    25 RT 60] RT 72] RT 45 ] RT 90] RT 120]
```