Programming Repeat X times

```
repeat 3
    move 100 steps
    wait 0.5 secs
    turn ↻ 120 degrees

repeat 5
    play drum 2 ▾ for 0.25 beats
    play drum 2 ▾ for 0.25 beats
    wait 0.5 secs

repeat 3
    say Are we there yet? for 2 secs
```
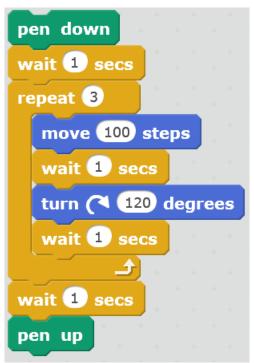
loop X times Algorithm

If you are planning to repeat something a set number of times write it like this. We can indent all the instructions that will be repeated.

Loop 3x
    Say are we there yet?

Do 5x
    ⟵ Beat drum
        Beat drum   indent
        Wait 1/2 second

Loop 3x
    Walk forward
    Wait 0.5 seconds
    Right 120 degrees

Debugging Repeat X times

Add extra wait blocks between every block of code. This will slow the program down and help you to see where any bugs are.

```
pen down
wait 1 secs
repeat 3
    move 100 steps
    wait 1 secs
    turn ↻ 120 degrees
    wait 1 secs
wait 1 secs
pen up
```

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Code-it Programming Knowledge Cards

Count controlled loop

Instructions that repeat or loop (iterate) set number of times

Everyday Repeat X times loops

Are we there yet?
Are we there yet?
Are we there yet?

Music that repeats set number of times