SONIC PUZZLE #1

Type this into sonic Pi, and click [Run ▶] What tune do you hear?
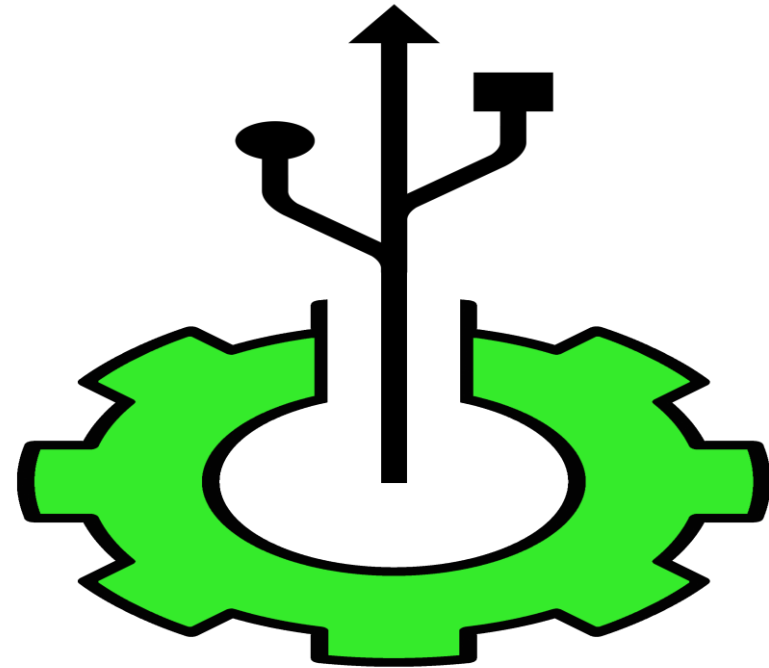
2.times do ⬅ This line tell sonic pi to do this whole list twice. How many times do you think it would play if we changed it to **5.times do**? If you said 5; you're right!

play 60

sleep 0.5

play 62 ⬅ **play** tells SonicPi to play the note on the MIDI scale (Musical Instrument Digital Interface). **Play 60** tells Sonic Pi to play 'Middle C'.

sleep 0.5

play 64

sleep 0.5 ⬅

play 60 **sleep** tells SonicPi to rest for that many seconds. Here we are asking SonicPi to wait for half a second.

sleep 0.5

end ⬅

Knowing what the tune sounds like and what the MIDI note numbers are, can you program the rest of the tune?

SONIC PUZZLE #1

HackLab
think.hack.make.do.

SONIC PUZZLE #2

Old McDonald had a farm…
What if I told you that you could get SonicPi to play whole song in just one line of code?
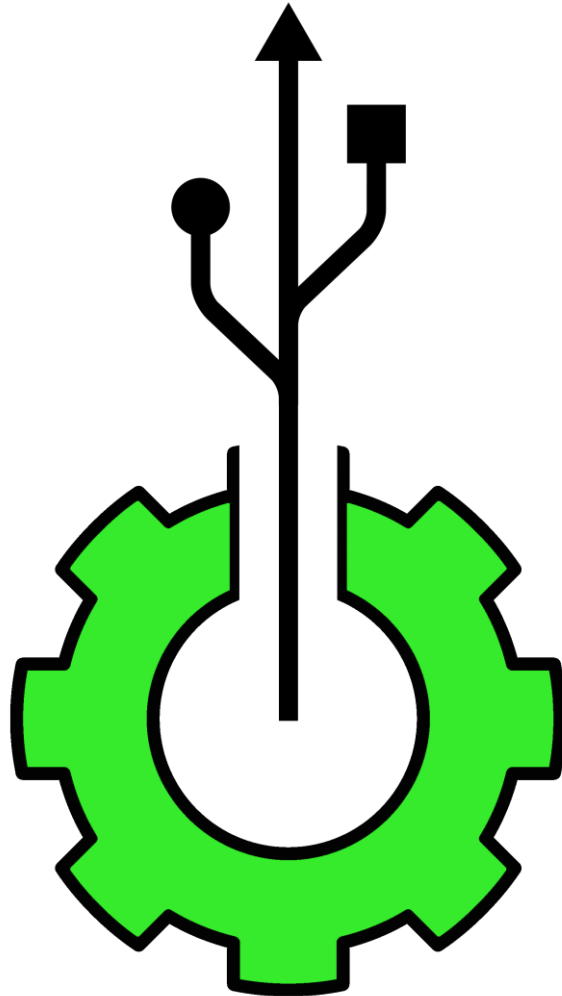It's this one:

play_pattern[x,y,z]

What this does: takes all the note numbers you put inside the square brackets and plays them one after another in that order.

So; play 60   can more easily be written as play_pattern [60,70,75]
    play 70
    play 75

Old McDonald goes like this: G,G,G,D,E,E,D,B,B,A,A,G
The MIDI note values are : C   D   E   F   G   A   B
                           60   62   64   65   67   69   71

Can you code the tune?

HackLab
think.hack.make.do.

SONIC
PUZZLE
#2

SONIC PUZZLE #3

Mozart wrote 'Twinkle, Twinkle, Little Star' when he was an infant. Surely you can do it?

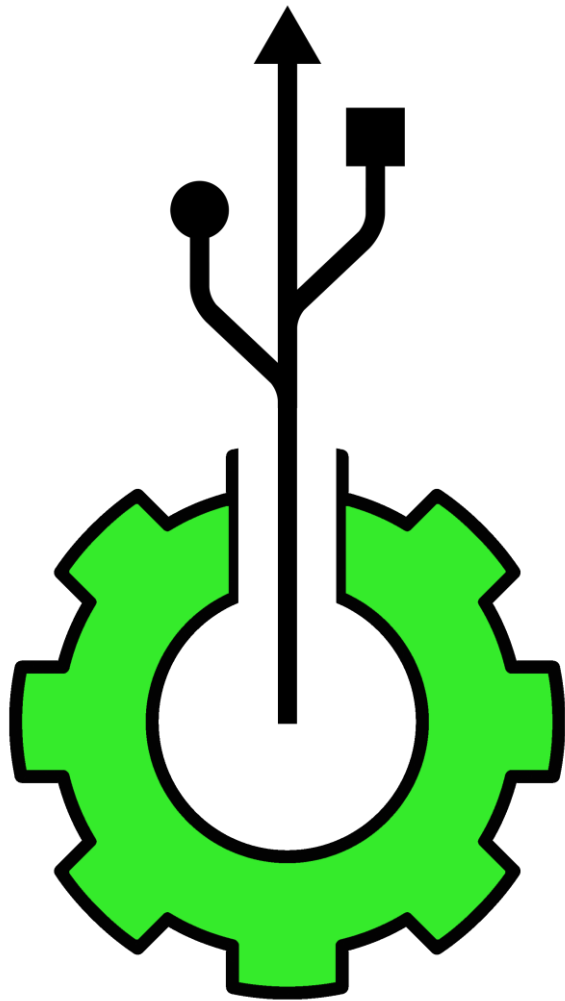The MIDI note values are : C   D   E   F   G   A   B
                              60 62 64 65 67 69 71

The song starts off: C C G G A A G

Can you code the rest of the tune?

Use command **play_pattern [60,60,67...]** to write the tune, by writing the numbers in the brackets. The first three have just been done for you!

HackLab

think.hack.make.do.

SONIC PUZZLE #3