Aim: Students will be able to iterate through data structures of different lengths in a loop structure.

```
seq = (ring, 50, 52, 54, 55, 57, 59, 61, 62).shuffle

use_random_seed Time.now.to_i

times do
new_seq = seq.take(dice)
puts new_seq

sleep 4

Students, write your response!

Pear Deck Interactive Slide
Do not remove this bar
```

Write out what each line of code is doing.
Format your response like this:
Line 2: explanation of what this line is doing

Line 4: explanation of what this line is doing

```
seq = (ring, 50, 52, 54, 55, 57, 59, 61, 62).shuffle
use_random_seed Time.now.to_i
4.times do
  new_seq = seq.take(dice)
  puts new_seq
 sleep 4
end
```

Make a prediction about what this code is going to do

```
1
2  seq = (ring, 50, 52, 54, 55, 57, 59, 61, 62).shuffle
3
4  use_random_seed Time.now.to_i
4  4.times do
6  new_seq = seq.take(dice)
7  puts new_seq
```

sleep 4

end

Which line of code is causing is causing us to get a different amount of numbers each time?

1
2 seq = (ring, 50, 52, 54, 55, 57, 59, 61, 62).shuffle
3
4 use_random_seed Time.now.to_i
5 4.times do

```
5 4.times do
6   new_seq = seq.take(dice)
7   puts new_seq
8   sleep 4
9   end
```



Copy and paste this code into Sonic Pi and run it.

```
seq = (ring, 50, 52, 54, 55, 57, 59, 61, 62)
use_random_seed Time.now.to_i
new_seq = seq.take(dice)
puts new_seq
4.times do
  play seq.tick
  sleep 1
end
```

Write an observation about what you saw/heard happening in the code.



What is the problem we are having with our code?





Everytime the console prints out the note sequence and sequence length, we are at the beginning of the .times do/end block which means we should be at the beginning of the sequence again.

Before we added the live loop, every time we ran the code, it started with the same number.

Assignment:

Create a live loop which generates different lengths of note sequences that uses a ring method to change the length of the sequence.

Checklist:

https://docs.google.com/document/d/10YDj0f7TBPSt37Jd02xDpmEI
xQg0SvNat9XRLXPEIfc/edit?usp=sharing

Copy and Paste your code to this slide