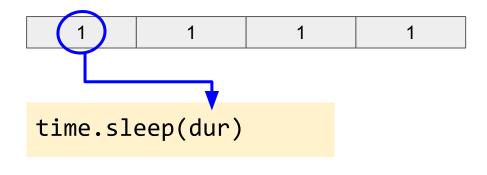
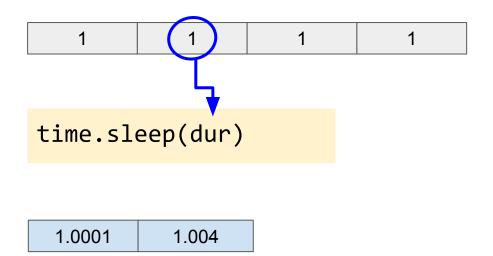
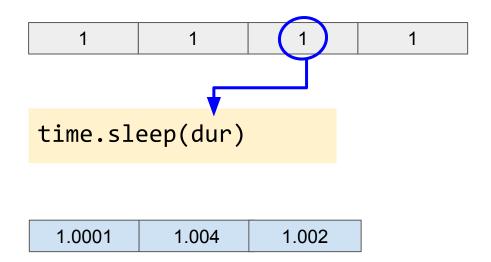
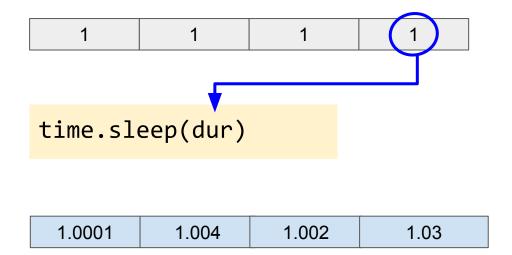
Duration vs. Timestamps

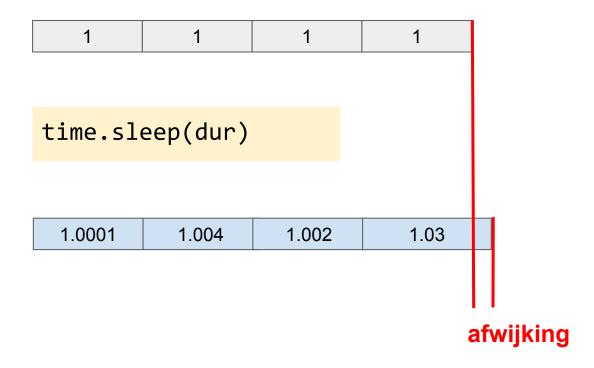


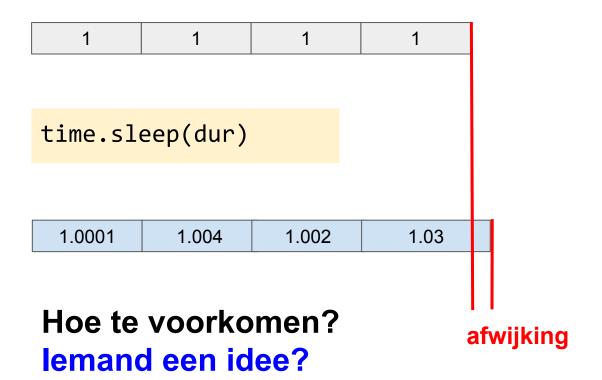
1.0001



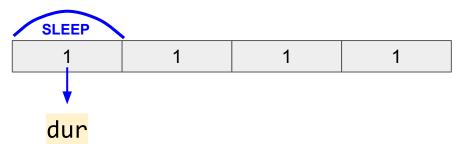








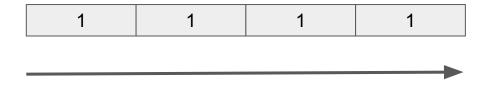
Duration



```
for dur in sequence:
    sample.play()
    time.sleep(dur)
```

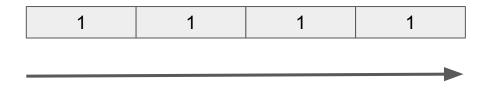
Duration → Timestamps

```
// TODO - play sample at
// t == 0 || t == 1 ||
// t == 2 || t == 3
```



$$timestamp_seq = [0, 1, 2, 3]$$

· initialize timestamp sequence



ts <u>timestamp_seq[0]</u>

retrieve first timestamp

```
t = 0.000
timestamp\_seq = [0, 1, 2, 3]
                                       TRUE
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.000
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
                                       play sample
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.000
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
                                         retrieve the next timestamp
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.000
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
                              minor fraction 'forward in time'
```

```
t = 0.001
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.001
timestamp\_seq = [0, 1, 2, 3]
                                       FALSE
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.001
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
                              minor fraction 'forward in time'
```

```
t = 0.002
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.002
timestamp\_seq = [0, 1, 2, 3]
                                       FALSE
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.002
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
                              minor fraction 'forward in time'
```

```
t = 0.003
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

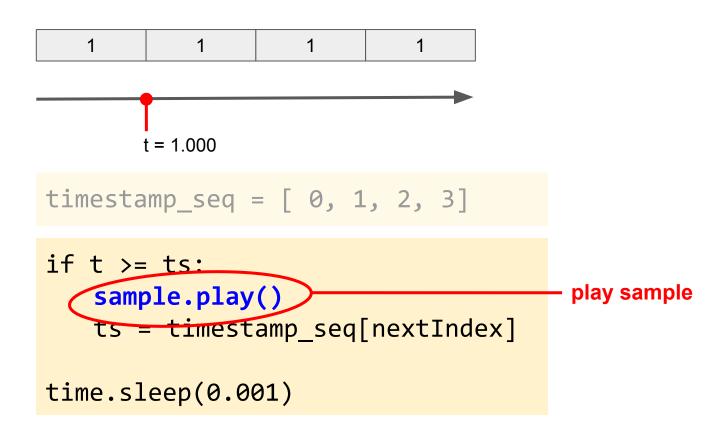
```
t = 0.003
timestamp\_seq = [0, 1, 2, 3]
                                       FALSE
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 0.003
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
    sample.play()
    ts = timestamp_seq[nextIndex]
time.sleep(0.001)
                              minor fraction 'forward in time'
```

```
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 1.000
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 1.000
timestamp_seq = [0, 1, 2, 3]
                                      TRUE
   sample.play()
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```



```
t = 1.000
timestamp_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
                                        retrieve the next timestamp
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
t = 1.000
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
                             minor fraction 'forward in time'
```

```
etcetera
timestamp\_seq = [0, 1, 2, 3]
if t >= ts:
   sample.play()
   ts = timestamp_seq[nextIndex]
time.sleep(0.001)
```

```
timestamp_seq = [ 0, 1, 2, 3]
ts = timestamp_seq.pop(0)
```

```
// retrieve current ts
if current_ts >= ts:
   sample.play()
   ts = timestamp_seq.pop(0)
time.sleep(0.001)
// repeat the above
```

Multiple samples

```
# first item in sublist is the timestamp, second is
the sample index
event seq = [[0, 0], [0.5, 1], [1.5, 0], [3.0, 1]]
event = event seq.pop(0)
event[0] \rightarrow timestamp
event[1] \rightarrow bevat the sample index
# dictionary = nog duidelijker (session4)
```