

# 6

```
def infinite_sequence():  
    num = 0  
    while True:  
        yield num  
        num += 1  
  
gen = infinite_sequence()  
  
print(next(gen)) #0  
print(next(gen)) #1  
print(next(gen)) #2
```

## Generators

### Generators

A special type of function that return a lazy iterator. You can use them with infinite or extremely large data sets that cannot be loaded into memory (as memory is finite). Lazy iterators are not stored in memory and only generate once needed.