Итераторы

```
In [1]:
         for number in range(5):
             print(number & 1)
         0
         1
         0
         1
         0
In [2]:
         for letter in 'python':
             print(ord(letter))
         112
         121
         116
         104
         111
         110
In [3]:
         iterator = iter([1, 2, 3])
In [4]:
         print(next(iterator))
         1
In [5]:
        print(next(iterator))
         2
```

StopIteration:

```
In [8]: class SquareIterator:
    def __init__(self, start, end):
        self.current = start
        self.end = end

def __iter__(self):
        return self

def __next__(self):
        if self.current >= self.end:
            raise StopIteration

        result = self.current ** 2
        self.current += 1
        return result

for num in SquareIterator(1, 4):
        print(num)
```

```
In [9]: class IndexIterable:
    def __init__(self, obj):
        self.obj = obj

def __getitem__(self, index):
    return self.obj[index]

for letter in IndexIterable('str'):
    print(letter)
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