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from generators import *

def fib():
    x,y = 1,1
    while True:
        yield x
        x,y = y, x+y

if __name__ == "__main__":
    even_fib = even(fib())
    for i in range(10): print(next(even_fib), end=' ')
    print()

    for i in stopAt(even(fib()), 40000000): print(i, end=' ')
    print()

    buffered_limited_fib = buffer(stopAt(fib(),3000), 5)
    for i in buffered_limited_fib: print(i)

    condfib = conditional(fib(), lambda x: (x%2 == 0))
    for i in range(10): print(next(condfib), end=' ')
    print()

    condfib2 = conditional(fib(), lambda x: (x%2 != 0))
    for i in range(15): print(next(condfib2), end=' ')
    print()
```