



```
24)     }
25)     yield person
26)
27)     """t1 = time.clock()
28)     people = people_list(10000000)
29)     t2 = time.clock()"""
30)
31)     t1 = time.clock()
32)     people = people_generator(10000000)
33)     t2 = time.clock()
34)
35)     print('Took {}'.format(t2-t1))
```

Note: In the above program observe the difference wrt execution time by using list and generators

Generators vs Normal Collections wrt Memory Utilization:

Normal Collection:

```
l=[x*x for x in range(10000000000000000)]
print(l[0])
```

We will get MemoryError in this case because all these values are required to store in the memory.

Generators:

```
g=(x*x for x in range(10000000000000000))
print(next(g))
```

Output: 0

We won't get any MemoryError because the values won't be stored at the beginning