```python
from GeneralModel import GeneralModel
import numpy as np
import matplotlib.pyplot as plt

B = np.array([0.4, 0.35, 0.25, 0, 0, 0, 0]).reshape([7,1])   # allocation

f41 = 0.7; f51 = 0.25; f42 = 0.65; f52 = 0.25; f43 = 0.15; f53 = 0.75;
f64 = 0.3; f65 = 0.05; f75 = 0.04;

A = np.array([-1, 0, 0, 0, 0, 0, 0,
              0, -1, 0, 0, 0, 0, 0,
              0, 0, -1, 0, 0, 0, 0,
              f41, f42, f43, -1, 0, 0, 0,
              f51, f52, f53, 0, -1, 0, 0,
              0, 0, 0, f64, f65, -1, 0,
              0, 0, 0, 0, f75, 0, -1]).reshape([7,7])   # tranfer

#turnover rate per day of pools:
#leaf,root,wood, metabolic litter, structural litter,
#fast SOM, passive SOM
temp = [0.0017, 0.002, 0.0001, 0.01, 0.001, 0.0001, 0.000001]



K = np.zeros(49).reshape([7, 7])

for i in range(0, 7):
    K[i][i] = temp[i]

#Unit of turnover rate from day^-1 to second^-1
#1 day = 86400 seconds
K = np.multiply(K, 1/86400)

# Cinput_const, assume to be constant
input_fluxes = 0.00002245 #

nyear = 10000

times = np.linspace(0, nyear*365*86400, num = nyear)

iv_list = [0,0,0,0,0,0,0]

mod = GeneralModel(times, B, A, K, iv_list, input_fluxes)

res = mod.get_x()

fig = plt.figure(6*2, figsize=(14, 7.68))
plt.subplots_adjust(left  = 0.1, right = 0.95, bottom = 0.10, top = 0.9, wspace
=0.2, hspace =0)
x = list(range(1,nyear+1, 1))

for i in range(1, 4):
    for j in range(1, 4):
        if ((i-1) * 3 + j) > 7 :
            break
        ax = plt.subplot(3, 3, (i-1) * 3 + j)
        ax.plot(x, res[(i-1) * 3 + j - 1,:])
plt.savefig("./test" + ".png", dpi = 500)
plt.show()

print(res[:,nyear-1])

#mod.write_output("./output.csv")
```