

```
import math
from math import log,exp,pi,e
import numpy as np

with open("zeros2millions", 'r') as f:
    lines = f.readlines()
    zeros = [float(line) for line in lines]

indice = 0
print('gamma = ',np.euler_gamma)
resultatdoitetre = (np.euler_gamma/4)+0.5+(log(4*pi)/4)
somme = 0
for z in zeros:
    indice = indice+1
    fgammadez = 0.5/(0.25+z*z)
    somme = somme+fgammadez
print(somme,' devrait etre proche de ',resultatdoitetre)
```