

```
In [7]: import matplotlib.pyplot as plt
import numpy as np
```

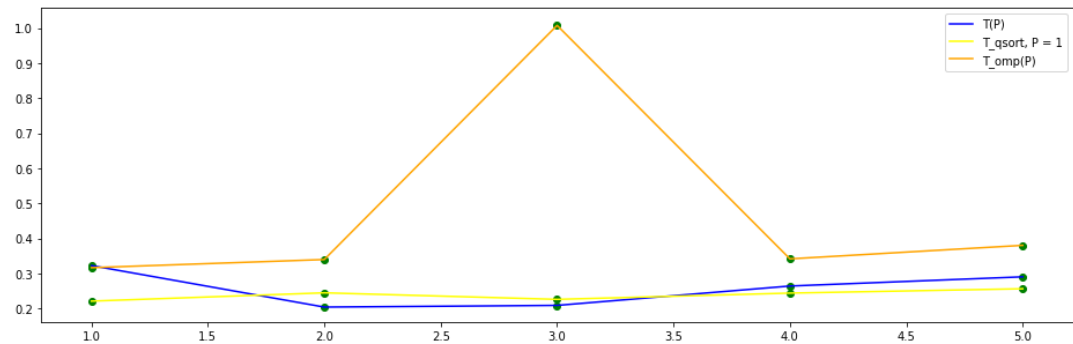
```
In [9]: T = np.zeros(5)
P = np.zeros(5)
T_qsort = np.zeros(5)
T_omp = np.zeros(5)
n = 0
with open('stats.txt', 'r') as f:
    for data in f:
        if n >= 0:
            data = data.split(' ')
            if n % 3 == 0:
                for i, s in enumerate(data):
                    if (i == 0):
                        s = s.split('s')
                        T[n // 3] = float(s[0])
                    elif (i == 3):
                        P[n // 3] = float(s)
            elif n % 3 == 1:
                s = data[0].split('s')
                T_qsort[n // 3] = float(s[0])
            else:
                s = data[0].split('s')
                T_omp[n // 3] = float(s[0])
        n += 1

S_p = T[0] / T
E_p = S_p / P
S_p_omp = T_omp[0] / T_omp
E_p_omp = S_p_omp / P
```

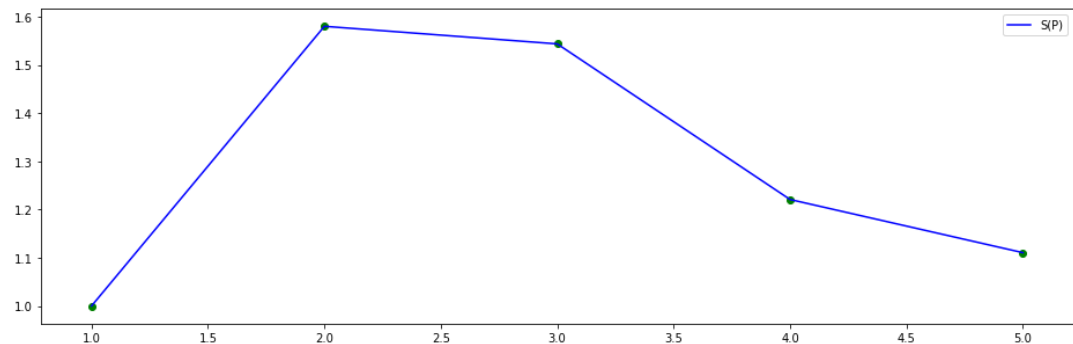
```
In [10]: print(T)
print(P)
print(T_qsort)
print(T_omp)
print(S_p)
print(E_p)
print(S_p_omp)
print(E_p_omp)
```

```
[ 0.322568  0.204074  0.208902  0.26419   0.290453]
[ 1.  2.  3.  4.  5.]
[ 0.221119  0.24477   0.226154  0.243979  0.256397]
[ 0.316601  0.339821  1.008122  0.341743  0.380352]
[ 1.          1.58064232  1.54411159  1.22096976  1.11056866]
[ 1.          0.79032116  0.51470386  0.30524244  0.22211373]
[ 1.          0.93166991  0.31405028  0.9264301   0.83238947]
[ 1.          0.46583495  0.10468343  0.23160752  0.16647789]
```

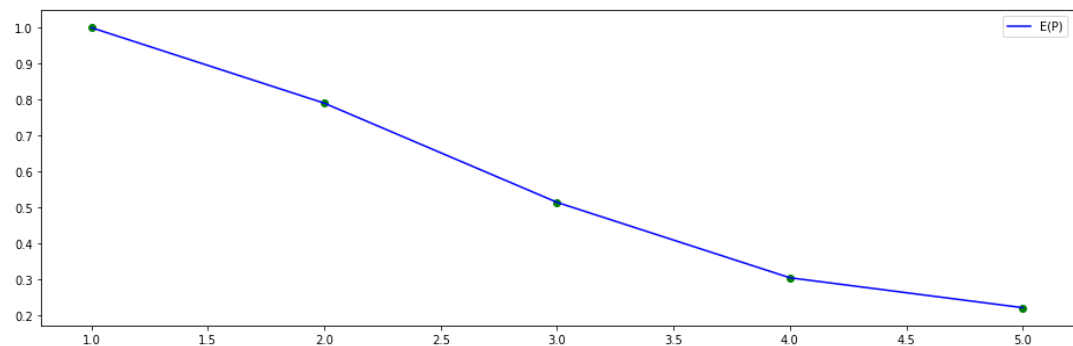
```
In [11]: plt.figure(figsize=(16, 5))
plt.plot(P, T, color='blue', label=u'T(P)')
plt.scatter(P, T, color='green')
plt.plot(P, T_qsort, color='yellow', label=u'T_qsort, P = 1')
plt.scatter(P, T_qsort, color='green')
plt.plot(P, T_omp, color='orange', label=u'T_omp(P)')
plt.scatter(P, T_omp, color='green')
plt.legend()
plt.show()
```



```
In [14]: plt.figure(figsize=(16, 5))
plt.plot(P, S_p, color='blue', label=u'S(P)')
plt.scatter(P, S_p, color='green')
plt.legend()
plt.show()
```



```
In [15]: plt.figure(figsize=(16, 5))
plt.plot(P, E_p, color='blue', label=u'E(P)')
plt.scatter(P, E_p, color='green')
plt.legend()
plt.show()
```



In [ ]:

