

Анализ результатов

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In [ ]: import numpy as np
import matplotlib.pyplot as plt
from matplotlib import rcParams
rcParams.update({'font.size': 16})
%matplotlib inline
```

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In [17]: # Выгружаем данные
N = list(map(lambda line: line.split(), open("N_graphs.txt", 'r').r
eadlines()))
p_shared = int(N[0][-1])

P = list(map(lambda line: line.split(), open("P_graphs.txt", 'r').r
eadlines()))
n_shared = int(N[0][6])
```

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In [14]: #  $T(N)$ ,  $S(N)$ ,  $E(N)$ ,  $P=const$ 

Ns = [int(N[i][6]) for i in range(len(N))]
Ts = [float(N[i][2][: -1]) for i in range(len(N))]
Sn = [float(N[i][1]) for i in range(len(N))]
En = [float(N[i][0]) for i in range(len(N))]

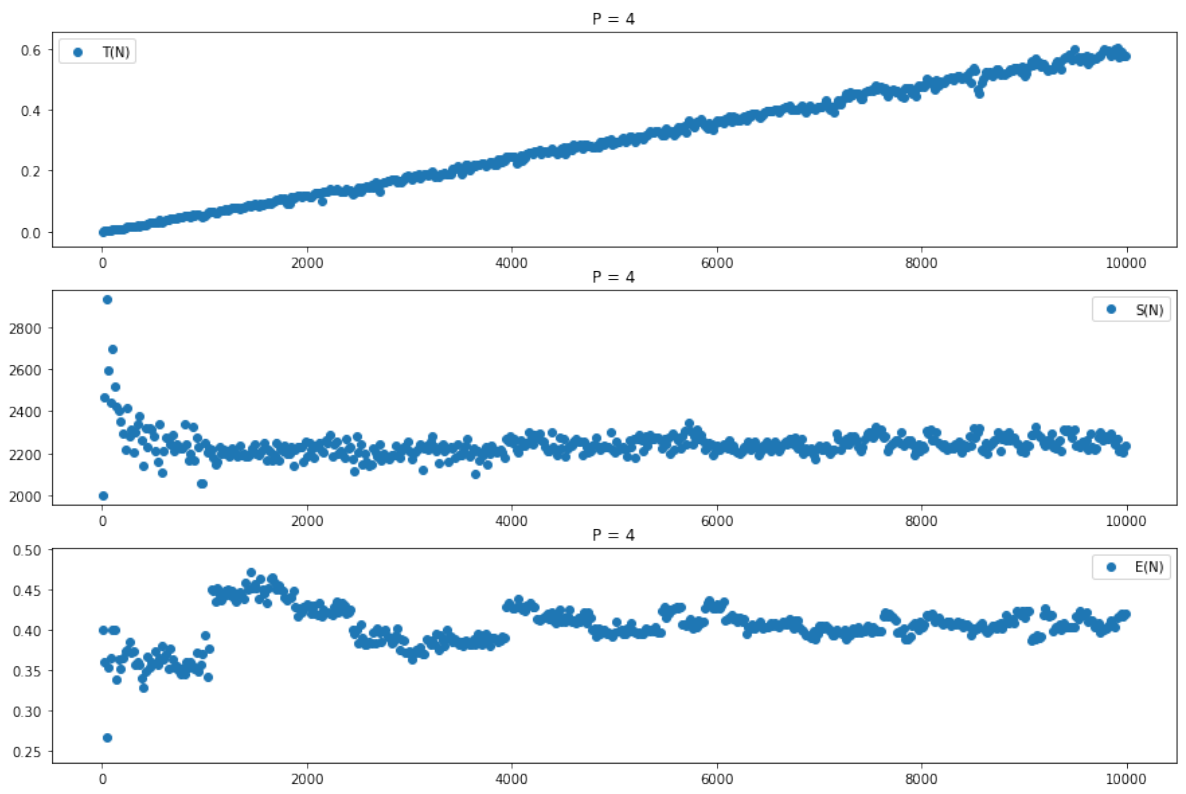
plt.figure(figsize=(15, 10))

plt.subplot(3, 1, 1)
plt.scatter(Ns, Ts, label = 'T(N)')
plt.title("P = " + str(p_shared))
plt.legend()

plt.subplot(3, 1, 2)
plt.scatter(Ns, Sn, label = 'S(N)')
plt.title("P = " + str(p_shared))
plt.legend()

plt.subplot(3, 1, 3)
plt.scatter(Ns, En, label = 'E(N)')
plt.title("P = " + str(p_shared))
plt.legend()

plt.show()
```



```

In [15]: #  $T(P)$ ,  $S(P)$ ,  $E(P)$ ,  $N=const$ 

Ps = [int(P[i][-1]) for i in range(len(P))]
Ts = [float(N[i][2][: -1]) for i in range(len(P))]
Sn = [float(N[i][1]) for i in range(len(P))]
En = [float(N[i][0]) for i in range(len(P))]

plt.figure(figsize=(15, 10))

plt.subplot(3, 1, 1)
plt.scatter(Ps, Ts, label = 'T(P)')
plt.title("N = " + str(n_shared))
plt.legend()

plt.subplot(3, 1, 2)
plt.scatter(Ps, Sn, label = 'S(P)')
plt.title("N = " + str(n_shared))
plt.legend()

plt.subplot(3, 1, 3)
plt.scatter(Ps, En, label = 'E(P)')
plt.title("N = " + str(n_shared))
plt.legend()

plt.show()

```

