# Анализ результатов

```
In [1]:  import numpy as np
         import matplotlib.pyplot as plt
         from matplotlib import rcParams
         rcParams.update({'font.size': 16})
         %matplotlib inline
```

```
In [8]:  # 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(P[0][6])
```

```
In [9]:  # T(N), S(N), E(N), P=const

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

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

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

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

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

         plt.show()
```
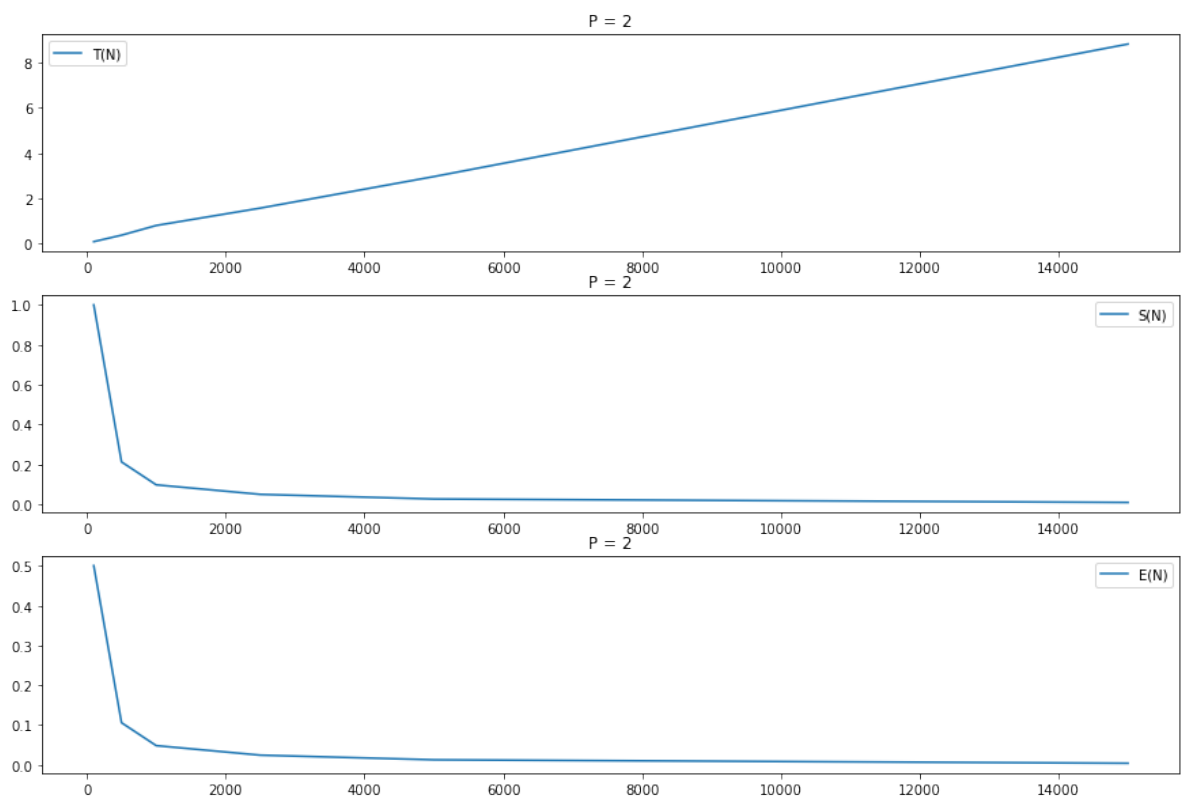
P = 2

T(N)

P = 2

S(N)

P = 2

E(N)

```
In [11]:  # T(P), S(P), E(P), N=const

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

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

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

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

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

          plt.show()
```
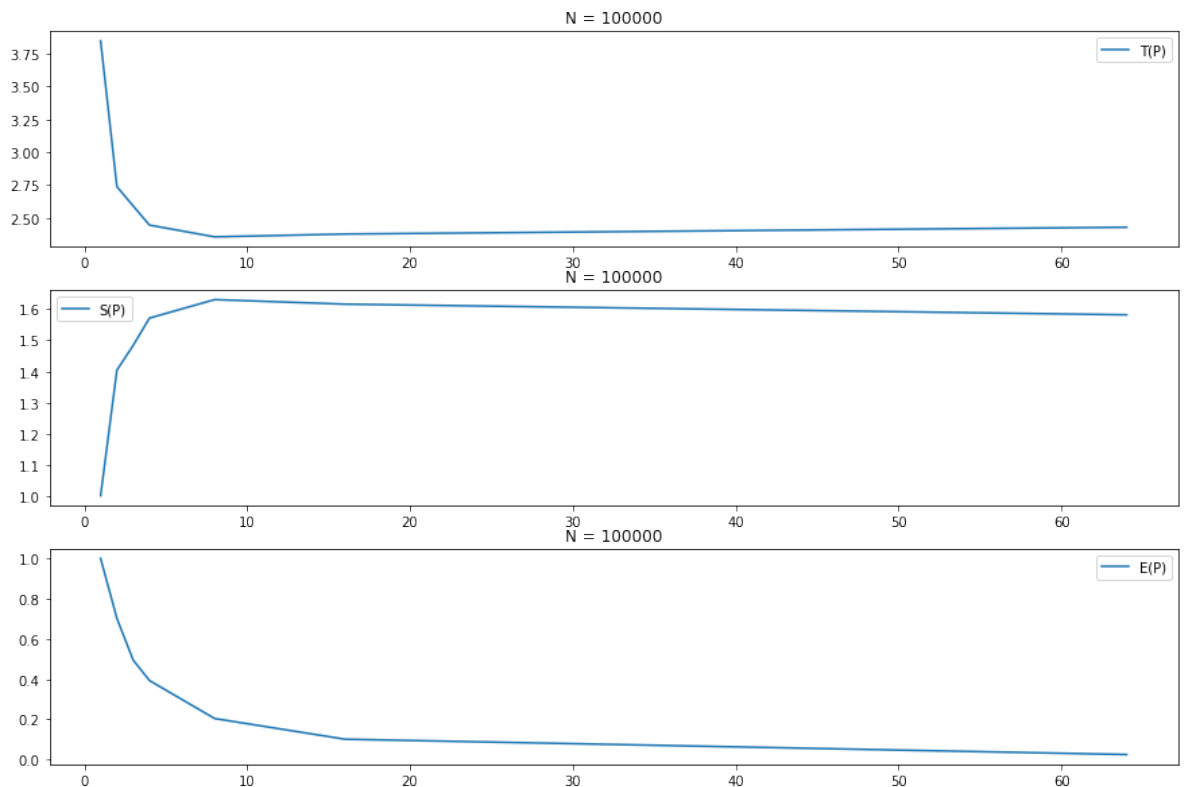


```
In [ ]:
```