```
\xi \sim Pois(\lambda) \implies E\xi = \lambda
N_t - N_s \sim Pois(\lambda(t-s)) \text{ is } (N_t - N_s) \perp N_s
E(N_t|N_s) = E(N_t - N_s|N_s) + E(N_s|N_s) = E(N_t - N_s) + N_s = \lambda(t - s) + N_s
t_0 = 1, t = 60.
In [49]:
file name = '496 Зотов Алексей.txt'
file = open(file name , 'r')
data = list(map(float, file.readlines()))
file.close()
t = 60
lb = data[0]
failed_time = data[1:]
In [51]:
NS = [len([0 for time in failed_time if time <= s]) for s in range(t+1)]</pre>
print("t||E(N_t|N_s)")
print("_
for s in range(t + 1):
     exp = lb*(t - s) + NS[s]
     print("%d||%.3f" % (s , exp))
t | E(N_t | N_s)
0 | | 20.100
1 | 21.765
2 | | 21.430
3 | | 22.095
4 | 21.760
5 | 21.425
6 | 22.090
7 | 22.755
8 | | 22.420
9 | 22.085
10 | 22.750
11 | 22.415
12 | 23.080
13 | 22.745
14 | 22.410
15 | | 22.075
16 | 21.740
17 | 22.405
18 | 23.070
19 | 23.735
20 | | 23.400
21 | 23.065
22 | | 22.730
23 | | 23.395
24 | 24.060
```

25 | 23.725

26 | | 23.390 27 | 23.055 28 | | 22.720 29 | | 23.385 30 | | 23.050 31 | 22.715 32 | | 22.380 33 | | 22.045 34 | | 21.710 35 | | 21.375 36 | 21.040 37 | 21.705 38 | | 22.370 39 | | 23.035 40 | | 22.700 41 | 22.365 42 | | 22.030 43 | | 21.695 44 | | 23.360 45 | | 23.025 46 | | 22.690 47 | | 23.355 48 | | 23.020 49 | | 22.685 50 | | 22.350 51 | 23.015 52 | | 23.680 53 | | 24.345 54 | | 26.010

55 | 25.675 56 | 27.340 57 | 27.005 58 | 26.670 59 | 26.335 60 | 27.000