$$\frac{O1.}{P_1(t+\Delta t)} = P_1(t) - \lambda_1 \Delta t P_1(t)$$

$$P_2(t+\Delta t) = P_2(t) + \lambda_1 \Delta t P_1(t)$$

$$-\lambda_2 \Delta t P_2(t)$$

$$P_{3}(t+\Delta t) = P_{3}(t) + \lambda_{2}\Delta t P_{2}(t)$$

$$\frac{dP_{1}(t)}{dt} = -\lambda_{1}P_{1}(t)$$

$$\frac{dP_2(t)}{dt} = \lambda_1 P_1(t) - \lambda_2 P_2(t)$$

$$\frac{dP_3(t)}{dt} = \lambda_2 P_2(t)$$

$$\frac{dP_2(t)}{dt} + \lambda_2 P_2(t) = \lambda_1 e^{-\lambda_1 t}, \quad v(x) = \int \lambda_2 dt = \lambda_2 t + C$$

$$P_2(t) = e^{-\lambda_2 t} \int e^{-\lambda_2 t} \lambda_1 e^{-\lambda_1 t} dt$$

=
$$ce^{-\lambda_2 t} - \frac{\lambda_1}{\lambda_1 + \lambda_2} e^{-(\lambda_1 + \lambda_2) t}$$

$$c = \frac{\lambda_1 + \lambda_2}{\lambda_1 + \lambda_2}$$

$$P_{2}(f) = \frac{\lambda_{1}}{\lambda_{1} + \lambda_{2}} \left[e^{-\lambda_{2} t} - e^{-(\lambda_{1} + \lambda_{2}) t} \right]$$

$$P_{3}(t)=1-P_{1}(t)-P_{2}(t)$$

$$=1-e^{-\lambda_{1}t}-\frac{\lambda_{1}}{\lambda_{1}+\lambda_{2}}\left[e^{-\lambda_{2}t}-e^{-(\lambda_{1}+\lambda_{2})t}\right]$$

$$R_{p}(t) = P_{1}(t) + P_{2}(t)$$

$$= e^{-\lambda_{1}t} + \frac{\lambda_{1}}{\lambda_{1}+\lambda_{2}} \left[e^{-\lambda_{2}t} - e^{-(\lambda_{1}+\lambda_{2})t} \right]$$

MTTF =
$$\frac{1}{\lambda} + \frac{1}{\lambda_2}$$

Q2.
$$D(t) = \beta_1 t$$
 $\beta_1 \sim LogNorm(\mu_1, \sigma_1^2)$

Failure: $D(t) > Df & D_f \sim LogNorm(\mu_2, \sigma_2^2)$
 $P(\beta_1 t > D_f) = F_T(t)$
 $\beta_1 = e^{\mu_1 + \sigma_1 Z}$
 $\beta_1 = e^{\mu_2 + \sigma_2 Z}$
 $\beta_1 = e^{\mu_1 + \sigma_1 Z}$
 $\beta_1 = e^{\mu_1 + \sigma_1 Z}$
 $\beta_1 = e^{\mu_2 + \sigma_2 Z}$
 $\beta_1 = e^{\mu_2 + \sigma_2 Z}$
 $\beta_1 = e^{\mu_1 + \sigma_1 Z}$
 $\beta_1 = e^{\mu_1 + \sigma_1 Z}$
 $\beta_1 = e^{\mu_2 + \sigma_2 Z}$
 $\beta_1 = e^{\mu_2 + \sigma_2$

Q3. Jet engine 5 modules

23A B C D E

once daily, average 5 hours

· From among the exponential, Weibull, normal, and lognormal distributions, find a best-fit failure distribution.

From histogram & best fit line plots, the best fit failure distributions:

23A: Weibull (B= 2.51787, 0=1332.4332)

23B: Exponential (7= 1/347.987)

230: Weibil (B= 2.089338, A= 500.781)

230: Exponential (7 1/1798.82)

23E: Weibull (B=1.16203, 0= 2836.11)

Repair time: Weibull (B= 1.24/27, B= 17.0590)

· Compute performance measurements

First, calculate system hazard rate, 2(t)

$$\lambda(t) = \lambda_B + \lambda_D + \sum_{i \in \{A,C,E,R\}} \frac{\beta_i}{\theta_i} \left(\frac{t}{\theta_i}\right)^{B-1}$$

$$R(t) = e^{-\int \lambda(t) dt}$$

$$= e^{-\int \lambda(t) dt} + \sum_{i \in \{A,C,E,R\}} \left(\frac{t}{\theta_i}\right)^{\beta_i}$$

Now, we can plug the values into this formula in futhon to calculate the measurements:

o 90th percentile of the repour time = tao

- · Which subsystem displays the worst reliability?

 Clearly, the 23B module has the worst reliability out of all the modules, based on the MTTF and the distribution/ histogram of failure times.
- · What should the reliability of that subsystem be to achieve a system reliability of R(10 missions) = 0.9?

Current R(10 missions) = 0.827774

Need to solve for his in the equation below:

$$0.9 = e^{-\left[\lambda_{\text{B}}^* t + \lambda_{\text{D}} t + \sum_{i \in \{A,C,E,R\}} \left(\frac{t}{\theta_i}\right)^{\beta_i}\right]}$$

Use the Python solver, we get a $\lambda_B^* = \frac{1}{832.92989}$ Reliability of 23B = $R_B(t) = e^{-\frac{t}{832.92989}}$

RB(10 missions) = 0.941737

Q4. a. Using TTF info (only): Solve using MLE on poll of 15 i'd Weibull r.v.s ∠(β,θ)= / δ(t;) / R(120000) where $F = \{1, 2, 3, 5, 6, 7, 8, 9, 103\}$ (specimens with complete $C = \{4, 11, 12, 13, 14, 153\}$ (specimens of censored failure data) B(ti) = = = (ti) = -(ti) = 0, 870, 870, R(120 000) = 1- F(120 000) = e (120 000/8) B In[2(B, 8)] = 6 In[1-F(120000)] + > In b(ti) Using MLE solver on R: 0=166420.226 B= 1.07888043 - (+) B F(t) = (- R(t), R(t) = e let F(t) = 0 e-(4/8) P = 1-0 (+/0) = -In(1-d) B(Int - In0) = In (-In (1-0)) In (-In (1-a)) + In A

b. Assume that the degradation signals follow a linear degradation path: DB= B1+B2t

$$B_1 \sim \mu_{B_1}$$
, $\beta_2 \sim N(\mu_{B_2}, \sigma_{B_2}^2)$
 $D_1 \sim N(\mu_{B_1} + \mu_{B_2}^t, \sigma_{B_2}^2 t^2)$
 $F_T(t) = P(\beta_1 + \beta_2 t > D_1)$

$$P(B_2 \leq X) = \Phi\left[\frac{X - MB_2}{\sigma_{B_2}}\right]$$

$$F_T(t) = P\left\{T \leq t\right\} \approx \Phi\left[\frac{t - \frac{D_8 - MB_1}{MB_2}}{\frac{\sigma_{B_2} t}{MB_2}}\right]$$

From numerical estimation using the data, BIN MBI= 8.39793572

B2~ N(5.2731428×105, (8.9685798×10-6)2)

C. Assume the same linear degradation path, use approximate degradation path to estimate pseudo failure times.

Pseudo random failure times = 108266.44, ..., 146556.57

After estimating the 15 pseudo random failure times, the estimated weiboll distribution has povamerers.

d. Bootstrapping:

From numerical estimation of the 15 paths

$$\beta_{1} \sim \mu_{\beta_{1}} = 8.39793572$$

 $\beta_{2} \sim N(5.2731428 \times 10^{5}, (8.9685798 \times 10^{-6})^{2})$ $\hat{\theta}_{\beta}$

$$F_{\tau}(t) = p \{ T \leq t \} \approx \Phi \left[\frac{t - \frac{D_{\delta} - \mu_{\beta_1}}{\mu_{\beta_2}}}{\frac{\sigma_{\beta_2} t}{\mu_{\beta_2}}} \right]$$

Si = D(ti; B_1 , B_2) + E_{ij} , where for each i, there will be 35 equally spaced tij points from 0 to 120 000, and E_{ij} $N(0, 0.63382^2)$ which is the standard dev. of the residual data points.

After running algorithm to calculate Bootstrap (onfidence Intervals at B=50,000 & $\alpha=0.1$, the confidence intervals are as follows:

 $\hat{F}(102795.66) = 0.1$ $\left[F(102795), F(102795)\right] = \left[7.7561 \times 10^{-5}, 0.27012\right]$

 $\hat{F}(112316.98) = 0.25$ $[F(112316), \hat{F}(112316)] = [0.016758, 0.49062]$

 $\hat{F}(125201.70) = 0.5$ [F(125201), F(125201)] = [0.14228, 0.85985]

Ê(141425.69) = 0.75

[F(141 425), F(141 425)] = [0.49426, 0.98548]

£ (160097.66) = 0.9

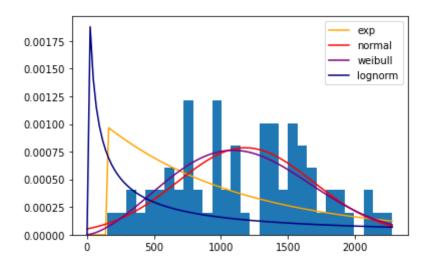
[F(160097), F(160097)] = [0.86178, 0.99901]

```
In [134]: import numpy as np
    import pandas as pd
    import matplotlib.pyplot as plt
    from scipy.stats import norm
    from sklearn.linear_model import LinearRegression
    from scipy.stats import weibull_min
    import matplotlib.mlab as mlab
    import scipy.stats as ss
    import math
    from scipy.optimize import minimize
    from scipy.optimize import fsolve
    from scipy.special import gamma, factorial
In [3]: df = pd.read_csv("q3.csv",index_col=0)
In [11]: lengths = {'A':80,'B':90,'C':60,'D':126,'E':90}
```

Find best-fit failure distributions

```
In [64]: for col in df.columns:
              data = df[col].dropna().copy()
              print(col)
             median, mu, sigma = np.median(data),np.mean(data),np.std(data)
              print(median, mu, sigma)
              rX = np.linspace(0,max(data), 100)
              # exponential
             P = ss.expon.fit(data)
             rP = ss.expon.pdf(rX, *P)
              # normal
              normP = ss.norm.fit(data)
              normrP = ss.norm.pdf(rX, *normP)
              # Weibull
             weiP = ss.weibull_min.fit(data, floc=0)
             weirP = ss.weibull_min.pdf(rX, *weiP)
              # Weibull
              logP = ss.lognorm.fit(data)
              logrP = ss.lognorm.pdf(rX, *weiP)
              n,bins,cont = plt.hist(data, density=True, bins=30) # density=False
          would make counts
             max_ratio = 6
              if max(rP)/max(n) <max ratio:</pre>
                  plt.plot(rX, rP, color ='orange',label='exp')
              if max(normrP)/max(n) <max ratio:</pre>
                  plt.plot(rX, normrP, color = 'red', label='normal')
              if max(weirP)/max(n) <max ratio:</pre>
                  plt.plot(rX, weirP, color ='purple',label='weibull')
              if max(logrP)/max(n) <max ratio:</pre>
                  plt.plot(rX, logrP, color ='navy',label='lognorm')
              plt.legend(loc="upper right")
              plt.show()
```

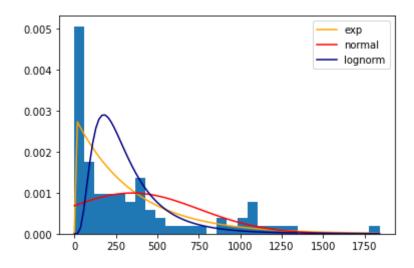
A 1159.6 1182.347142857143 508.1729322418357



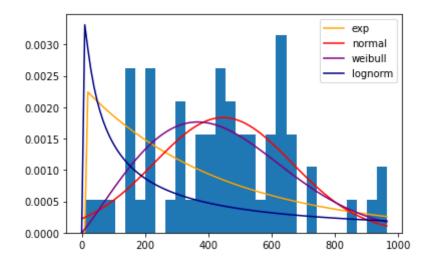
232.45 348.08690476190475 402.4948508336006

/Users/hellozhems/opt/anaconda3/lib/python3.8/site-packages/scipy/stat s/_continuous_distns.py:2046: RuntimeWarning: divide by zero encountere d in power

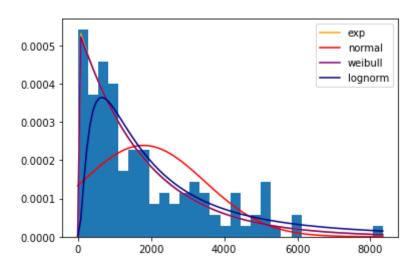
return c*pow(x, c-1)*np.exp(-pow(x, c))



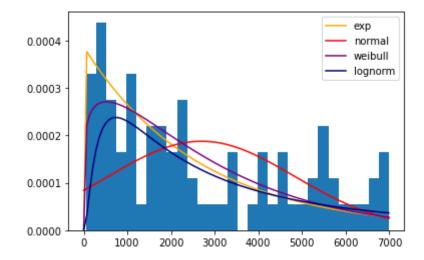
C 447.45 446.776666666666 217.45955667408344



D 1184.7 1800.61746031746 1670.1909587657206



E 2081.2 2697.241772151898 2127.137768868946



Repair Time
11.8 15.717021276631579 16.701513567073224

```
In [137]: best_fit = {'A':'w','B':'e','C':'w','D':'e','E':'w','Repair Time':'w'}
    paras = {}
    for i in df.columns:
        data = df[i].dropna().copy()
        print(i)
        if best_fit[i] == 'w':
            shape,loc,scale = ss.weibull_min.fit(data, floc=0)
            paras[i] = shape,scale
            print(shape,scale)
        elif best_fit[i] == 'e':
            loc, scale = ss.expon.fit(data)
            paras[i] = 1/scale
            print(scale)
```

```
A
2.517875275657132 1332.4332341044333
B
347.9869047619048
C
2.089338035932316 500.781212480881
D
1798.81746031746
E
1.1620315113324662 2836.105261943644
Repair Time
1.2412661365976316 17.058960233972957
```

Compute Performance Measurements

 β is the first, θ is the second

```
In [138]: paras
Out[138]: {'A': (2.517875275657132, 1332.4332341044333),
            'B': 0.00287367135462815,
           'C': (2.089338035932316, 500.781212480881),
           'D': 0.0005559207768772254,
           'E': (1.1620315113324662, 2836.105261943644),
            'Repair Time': (1.2412661365976316, 17.058960233972957)}
In [139]: def R(t):
              return np.exp(-(t*(paras['B']+paras['D'])+sum([(t/paras[i][1])**para
          s[i][0] for i in ['A','C','E']])))
In [140]: R(5)
Out[140]: 0.9823124629123697
In [147]: R(125)
Out[147]: 0.5987569008055672
In [142]: def R_(t):
              return np.exp(-(t*(paras['B']+paras['D'])+sum([(t/paras[i][1])**para
          s[i][0] for i in ['A','C','E']])))-0.5
          fsolve(R_{,}[1])
Out[142]: array([162.41229796])
In [143]: R(162.41229796)
Out[143]: 0.4999999999996832
In [144]: | paras['Repair Time'][1]*gamma(1+1/paras['Repair Time'][0])
Out[144]: 15.914133241640979
In [159]:
         def wb(x):
              return 1-np.exp(-(x/paras['Repair Time'][1])**paras['Repair Time'][0
          ])
          def wb90(x):
              return 1-np.exp(-(x/paras['Repair Time'][1])**paras['Repair Time'][0
          ])-0.9
          fsolve(wb90,[1])
Out[159]: array([33.40135005])
In [146]: wb(33.40135005)
Out[146]: 0.8999999999825136
```

Which subsystem displays the worst reliability?

```
In [148]: R(50)
Out[148]: 0.827774072533606
In [150]: | def R_imp(t):
              return np.exp(-(t*(paras['D'])+sum([(t/paras[i][1])**paras[i][0] for
          i in ['A','C','E']])))
          R_{imp}(50)
Out[150]: 0.9556806657659889
In [162]: def R_solve(c):
              t = 50
              return np.exp(-(t*(1/c+paras['D'])+sum([(t/paras[i][1])**paras[i][0]
          for i in ['A','C','E']])))-0.9
          fsolve(R_solve,[1])
Out[162]: array([832.92988569])
In [163]: | def R_imp(t):
              return np.exp(-(t*(paras['D']+1/832.92988569)+sum([(t/paras[i][1])**
          paras[i][0] for i in ['A','C','E']])))
          R_{imp}(50)
Out[163]: 0.900000000000954
In [165]: np.exp(-50/fsolve(R_solve,[1])[0])
Out[165]: 0.9417371641380229
  In [ ]:
```

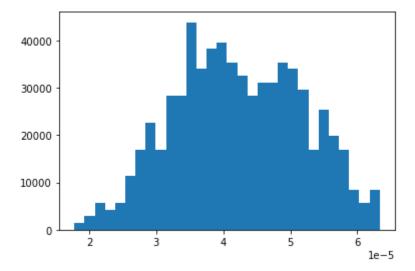
```
In [1]:
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         from scipy.stats import norm
         from sklearn.linear model import LinearRegression
        df = pd.read_csv("4.csv")
In [2]:
In [3]: | df = df.set_index('(mm)')
         df.head(2)
Out[3]:
               Specimen Specimen Specimen Specimen Specimen Specimen Specimen S
                     1
         (mm)
                             0.0
                                                        0.0
                                                                   0
                                                                           0.0
                                                                                    0.0
           9.0
                    0.0
                                      0.0
                                               0.0
           9.2
                 5529.0
                           5630.0
                                    8502.0
                                             9063.0
                                                      6109.0
                                                                6840
                                                                        6078.0
                                                                                 6366.0
```

a

Obtained results for optimal θ and β from an Excel add-in (real-statistics) for censored TTF data for Weibull data (https://www.real-statistics.com/distribution-fitting/distribution-fitting-via-maximum-likelihood/weibull-with-multi-censored-data/ (https://www.real-statistics.com/distribution-fitting/distribution-fitting-via-maximum-likelihood/weibull-with-multi-censored-data/)

```
In [4]: values = []
    for index, row in df.iterrows():
        for col in df.columns:
            if np.isnan(row[col]):
                 continue
            values.append((index-9)/row[col])
```

<ipython-input-4-c96cccd5ba18>:6: RuntimeWarning: invalid value encount
ered in double_scalars
 values.append((index-9)/row[col])



```
In [6]: datasets = []
    for col in df.columns:
        temp = df[col].dropna()
        temp2 = [[i] for i in temp.tolist()]
        datasets.append((np.array(temp2),list(temp.index)))
    paras = []
    for ds in datasets:
        reg = LinearRegression().fit(ds[0], ds[1])
        paras.append((reg.intercept_, reg.coef_[0]))
```

```
In [7]: b0 = [i[0] for i in paras]
b1 = [i[1] for i in paras]
mu1 = np.mean(b0)
mu2,sigma2 = np.mean(b1), np.std(b1)
```

```
In [8]: print(mu1)
  print(mu2, sigma2)
```

8.397935719833548

5.273142846989178e-05 8.96857984216601e-06

```
In [9]: alphas = [.1, .25, .5, .75, .9]
           for a in alphas:
               print(a, ((15-mu1)/mu2)/(1-(norm.ppf(a)*sigma2/mu2)))
          0.1 102795.66099119555
          0.25 112316.97835407344
          0.5 125201.69606131667
          0.75 141425.69116837715
          0.9 160097.66131363285
C
 In [10]: datasets = []
           for col in df.columns:
               temp = df[col].dropna()
               temp2 = [[i] for i in temp.tolist()]
               datasets.append((np.array(temp2), list(temp.index)))
 In [11]: paras = []
           for ds in datasets:
               reg = LinearRegression().fit(ds[0], ds[1])
               paras.append((reg.intercept_,reg.coef_[0]))
 In [12]:
          paras
 Out[12]: [(8.450164920576583, 6.049736997913594e-05),
           (8.393495930149058, 5.8396000329688914e-05),
            (8.326126086470293, 5.2720157664771053e-05),
            (8.581878706294306, 3.948956843744145e-05),
            (8.219714093847719, 5.936038054956756e-05),
            (7.934458348505408, 6.658446055109067e-05),
            (8.516418007102576, 5.566229060232148e-05),
            (8.31240549788686, 6.018848739924009e-05),
            (8.412326337331098, 5.649477009969021e-05),
```

(8.206963892180443, 6.345300642150366e-05), (8.434316734321353, 4.812507103998807e-05), (8.555435717579321, 4.4691167712151454e-05), (8.449608113249457, 4.650482330749459e-05), (8.514525013632095, 3.555230309979747e-05), (8.661198398376644, 4.325156985449416e-05)]

```
In [13]:
         TTFs = [(15-x0)/x1 for x0,x1 in paras]
Out[13]: [108266.44334592222,
          113132.81787369522,
          126590.55300946794,
          162527.00517285083,
          114222.41305361166,
          106113.97303539251,
          116480.68957886215,
          111110.85842302749,
          116606.78769104372,
          107056.17418180294,
          136429.58075268276,
          144202.19055203637,
          140854.03235356233,
          182420.6709805208,
          146556.5671476941]
In [14]: from scipy.stats import weibull min
In [15]: shape, loc, scale = weibull min.fit(TTFs, floc=0)
In [16]: b,t = shape, scale
         b,t
Out[16]: (5.739259313272218, 138468.62033053272)
In [17]: for a in [.1,.25,.5,.75,.9]:
             print(a, np.exp((np.log(-np.log(1-a))/b)+np.log(t)))
         0.1 93554.39936058444
         0.25 111448.2199840619
         0.5 129902.35673642042
         0.75 146577.74924038793
         0.9 160126.5281687117
```

d

```
In [18]: datasets = []
         for col in df.columns:
             temp = df[col].dropna()
             temp2 = [[i] for i in temp.tolist()]
             datasets.append((np.array(temp2),list(temp.index)))
         paras = []
         for ds in datasets:
             reg = LinearRegression().fit(ds[0], ds[1])
             paras.append((reg.intercept ,reg.coef [0]))
```

```
In [19]:
                        paras
Out[19]: [(8.450164920576583, 6.049736997913594e-05),
                            (8.393495930149058, 5.8396000329688914e-05),
                            (8.326126086470293, 5.2720157664771053e-05),
                            (8.581878706294306, 3.948956843744145e-05),
                            (8.219714093847719, 5.936038054956756e-05),
                            (7.934458348505408, 6.658446055109067e-05),
                            (8.516418007102576, 5.566229060232148e-05),
                            (8.31240549788686, 6.018848739924009e-05),
                            (8.412326337331098, 5.649477009969021e-05),
                            (8.206963892180443, 6.345300642150366e-05),
                            (8.434316734321353, 4.812507103998807e-05),
                            (8.555435717579321, 4.4691167712151454e-05),
                            (8.449608113249457, 4.650482330749459e-05),
                            (8.514525013632095, 3.555230309979747e-05),
                            (8.661198398376644, 4.325156985449416e-05)]
In [20]: b0 = [i[0] for i in paras]
                         b1 = [i[1]  for i  in paras]
In [21]: mu1 = np.mean(b0)
                         mu1
Out[21]: 8.397935719833548
In [22]:
                        mu1 = np.mean(b0)
                         mu2,sigma2 = np.mean(b1), np.std(b1)
                         print(mu1)
                         mu2, sigma2
                         8.397935719833548
Out[22]: (5.273142846989178e-05, 8.96857984216601e-06)
In [23]:
                        df.head(2)
Out[23]:
                                        Specimen Spe
                                                                             2
                                                                                                                                              5
                                                                                                                                                                                                               8
                                                                                                                                                                                         7
                          (mm)
                                                    0.0
                                                                          0.0
                                                                                                0.0
                                                                                                                     0.0
                                                                                                                                           0.0
                                                                                                                                                                    0
                                                                                                                                                                                       0.0
                                                                                                                                                                                                            0.0
                              9.0
                              9.2
                                              5529.0
                                                                   5630.0
                                                                                         8502.0
                                                                                                               9063.0
                                                                                                                                     6109.0
                                                                                                                                                              6840
                                                                                                                                                                                6078.0
                                                                                                                                                                                                      6366.0
In [24]: res = []
                         for index, row in df.iterrows():
                                   for col in df.columns:
                                              if np.isnan(row[col]):
                                                         continue
                                              res.append(index-(mu1+mu2*row[col]))
```

```
In [25]: eps = np.std(res)
eps

Out[25]: 0.6338226825013553

In [26]: alphas = [.1,.25,.5,.75,.9]
    ts = [((15-mu1)/mu2)/(1-(norm.ppf(a)*sigma2/mu2)) for a in alphas]
ts

Out[26]: [102795.66099119555,
    112316.97835407344,
    125201.69606131667,
    141425.69116837715,
    160097.66131363285]
In []:
In []:
```

```
In [27]: B = 50000
         n = 15
         Fs = []
         timepoints = np.arange(0,121000,120000/35)
         for it in range(B):
             if it%100 == 1:
                 print(it)
             df2 = pd.DataFrame(index=timepoints)
             mu2s = np.random.normal(mu2, sigma2, n)
             for i in range(n):
                 df2[str(i+1)] = df2.index*mu2s[i]+mu1+np.random.normal(0,eps,36)
             datasets = []
             for col in df2.columns:
                 temp = df2[col]
                 temp2 = [[i] for i in temp.index]
                 datasets.append((np.array(temp2),list(temp.tolist())))
             paras = []
             for ds in datasets:
                 reg = LinearRegression().fit(ds[0], ds[1])
                 paras.append((reg.intercept_,reg.coef_[0]))
             b0 = [i[0]  for i  in paras]
             b1 = [i[1]  for i  in paras]
             mu1_ = np.mean(b0)
             mu2_,sigma2_ = np.mean(b1), np.std(b1)
             Fs.append([(time-(15-mu1_)/mu2_)/(sigma2_*time/mu2_) for time in ts
         ])
```

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          49901
In [28]: mu1_,mu2_,sigma2_
Out[28]: (8.339634638736586, 5.441128552842717e-05, 7.4960437653152e-06)
```

In [29]: Fs

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In [44]: norm.ppf(.975)
Out[44]: 1.959963984540054
In [46]: norm.cdf(1.959963984540054)
Out[46]: 0.975
```

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In [66]: F_array = np.array(newF)
         # B
         alpha = 0.1
         for i,(a,t) in enumerate(zip(alphas,ts)):
             curr_F = F_array[:,i]
             q = sum(curr F < a)/B
             1 = B*norm.cdf(2*norm.ppf(q)+2*norm.ppf(alpha/2))
             u = B*norm.cdf(2*norm.ppf(q)+2*norm.ppf(1-alpha/2))
         #
               print(q)
         #
               print(norm.ppf(q))
             print(t)
             print(a)
             print(curr_F[round(u)],curr_F[round(l)])
             print(1,u)
         102795.66099119555
         0.1
         0.2701215037289606 7.75611207116247e-05
         26.362267698833744 49976.15784299642
         112316.97835407344
         0.25
         0.4906165892037022 0.016757603311460752
         25.17136433255048 49975.02517450271
         125201.69606131667
         0.8598521485223439 0.14228099740795785
         24.859357638097748 49974.711827065
         141425.69116837715
         0.75
         0.9854759633767335 0.4942561720035095
         25.24318728945886 49975.09629025551
         160097.66131363285
         0.9
         0.999011551338683 0.8617799003732357
         24.211436280132112 49974.037301138866
In [51]:
Out[51]: array([3.51532829e-06, 1.61140396e-05, 3.40294152e-04, ...,
                2.14385681e-01, 3.82396012e-02, 3.99804596e-01])
 In [ ]:
```