

Final_Iteration

March 15, 2017

```
In [1]: import pandas as pd
import numpy as np
import scipy as sp
import sklearn as sk
import math
import csv
import statsmodels.api as sm
import statsmodels.formula.api as smf
import random
import matplotlib.pyplot as plt
import pylab as plt
import plotly.plotly as py
import plotly
import plotly.graph_objs as go
from scipy.stats.stats import pearsonr
from sklearn import linear_model, datasets
import itertools

In [2]: #####
##[FUNCTION] data_creation simulates data for a given number of
## individuals(indiv) over a set amount of time (max_time), and can
## include as many covariates as desired (number_of_covariates)

## -- need to create the functionality for multiple covariates

#####

def data_creation2(indiv, max_time, number_of_covariates, Y_full, alpha, beta):

    columns = ["indiv", "time", "U", "A", "Y", "L1"]
    df = pd.DataFrame(columns = columns)

    ## creating an unobserved variable that affects covariates
    U = np.random.uniform(low = 0.1, high = 1, size = indiv)

    for jj in range(0, max_time+1):
        if jj == 0:
```

```

x_L = alpha[0] + alpha[5]*U
L1 = np.random.binomial(n=1, p = np.exp(x_L)/(1+np.exp(x_L)))

x_A = beta[0] + beta[1]*L1
A = np.random.binomial(n=1, p = np.exp(x_A)/(1+np.exp(x_A)))

df = pd.DataFrame({"indiv":range(1,indiv+1), "time":jj, "U":U, "Y":[math.nan]*indiv, "L1":L1})

elif jj == 1:
    x_L = np.sum(alpha*np.transpose(np.array([[1.0]*indiv, df["L1"][(df.time == jj-1)], [0.0]*indiv, df["A"][(df.time == jj-1)], [0.0]*indiv, U])), axis = 1)

    L1 = np.random.binomial(n=1, p = np.exp(x_L)/(1+np.exp(x_L)))

    x_A = np.sum(beta*np.transpose(np.array([[1.0]*indiv, L1, df["L1"][(df.time == jj-1)], df["A"][(df.time == jj-1)], [0.0]*indiv])), axis = 1)

    A = np.random.binomial(n=1, p = np.exp(x_A)/(1+np.exp(x_A)))

    temp_df = pd.DataFrame({"indiv":range(1,indiv+1), "time":jj, "U":U, "Y":[math.nan]*indiv, "L1":L1})
    df = pd.concat([df, temp_df])

else:
    x_L = np.sum(alpha*np.transpose(np.array([[1.0]*indiv, df["L1"][(df.time == jj-2)], df["L1"][(df.time == jj-1)], df["A"][(df.time == jj-1)], df["A"][(df.time == jj-2)], U])), axis = 1)

    L1 = np.random.binomial(n=1, p = np.exp(x_L)/(1+np.exp(x_L)))

    x_A = np.sum(beta*np.transpose(np.array([[1.0]*indiv, L1, df["L1"][(df.time == jj-1)], df["A"][(df.time == jj-1)], df["A"][(df.time == jj-2)]]), axis = 1)

    A = np.random.binomial(n=1, p = np.exp(x_A)/(1+np.exp(x_A)))

    if jj == max_time:
        x_Y = 0.5 + U
        Y = np.random.binomial(n=1, p = np.exp(x_Y)/(1+np.exp(x_Y)))
        temp_df = pd.DataFrame({"indiv":range(1,indiv+1), "time":jj, "U":U, "Y":Y, "L1":L1})
        df = pd.concat([df, temp_df])

    else:

```

```
temp_df = pd.DataFrame({"indiv":range(1,indiv+1), "time":j
                        "Y":[math.nan]*indiv, "L1":L1})
df = pd.concat([df, temp_df])
```

```
# creating shifted values
if Y_full == "TRUE":
    for kk in range(1,max_time+1):
        df["L1_"+str(kk)] = df.L1.shift(kk)
        df["A_"+str(kk)] = df.A.shift(kk)
else:
    for kk in range(1,4):
        df["L1_"+str(kk)] = df.L1.shift(kk)
        df["A_"+str(kk)] = df.A.shift(kk)

df.sort_values(by=['time', 'indiv'], ascending=[True, True])

return(df);
```

```
In [3]: #####
##[FUNCTION] Y_model_creation creates the linear regression model for
## the observed Ys based on the treatments (A) and covariates (L)

#####

def Y_model_creation(df, max_time):
    temp_df = df[df.time == max_time]
    # train_columns = '+'.join(map(str, np.append(list(df)[0:2],list(df)[6:]
    train_columns = list(df)[0:2]+list(df)[6:]
    temp_df = temp_df.astype(float)
    # Y_model = smf.ols("Y~"+train_columns, data=temp_df).fit();
    Y_model = sm.Logit(np.asarray(temp_df["Y"]), \
                        np.asarray(sm.add_constant(temp_df[train_columns])))
    return(Y_model)
```

```
In [4]: #####
##[FUNCTION] covariate_model_creation creates the logistic regression
## for the observed covariate (L) data from the previous covariates
## and the previous treatments (A)

## -- need to create the functionality for multiple covariates
## SHOULD THIS BE FOR ALL HISTORY UP TO THAT POINT TO BE MORE
## ACCURATE WHEN CALCULATING THE EXPECTATION???

#####

def covariate_model_creation(df, max_time):
```

```

columns = ["time", "gamma_0", "gamma_1", "gamma_2", "gamma_3", "gamma_4",
           "gamma_5", "gamma_6"]
train_columns = ["L1_1", "L1_2", "L1_3", "A_1", "A_2", "A_3"]
L1_model_df = pd.DataFrame(columns = columns)

for ii in range(1, (max_time+1)):
    temp_df = df[df.time == ii]
    if ii == 1:
        L1_model = sm.Logit(np.asarray(temp_df["L1"]), \
                             np.asarray(sm.add_constant(temp_df[["L1_1", "A_1"]]))
        L1_model_df = L1_model_df.append(pd.DataFrame([ii] + \
                                                       [L1_model.params[i] for i in range(0,2)] + ["Nan"]
                                                       ["Nan"] + [L1_model.params[2]] + ["Nan"] + ["Nan"]
                                                       index = columns).transpose(), ignore_index=True)
    elif ii == 2:
        L1_model = sm.Logit(np.asarray(temp_df["L1"]), \
                             np.asarray(sm.add_constant(temp_df[["L1_1", "L1_2",
                                                                    "A_1", "A_2"]]))).fit();
        L1_model_df = L1_model_df.append(pd.DataFrame([ii] + [L1_model.params
                                                             for i in range(0,3)] + ["Nan"] + [L1_model.params
                                                             in range(3,5)] + ["Nan"], index = columns).transpose(),
                                           ignore_index=True)
    else:
        L1_model = sm.Logit(np.asarray(temp_df["L1"]), \
                             np.asarray(sm.add_constant(temp_df[train_columns]))
        L1_model_df = L1_model_df.append(pd.DataFrame([ii] + [L1_model.params
                                                             i in range(0,7)], index = columns).transpose(),
                                           ignore_index=True)

return(L1_model_df)

```

```

In [5]: #####
        ##[FUNCTION] treatment_model_creation creates the logistic regression
        ## for the observed treatment (A) data from the current and previous
        ## covariates and the previous treatments (A)

        ## -- need to create the functionality for multiple covariates
        #####

def treatment_model_creation(df, max_time):
    columns = ["time", "zeta_0", "zeta_1", "zeta_2", "zeta_3", "zeta_4"]
    train_columns = ["L1", "L1_1", "A_1", "A_2"]
    A_model_df = pd.DataFrame(columns = columns)

    for ii in range(1, (max_time+1)):
        temp_df = df[df.time == ii]
        if ii == 1:
            A_model = sm.Logit(np.asarray(temp_df["A"]), np.asarray(sm.add_

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        temp_df[["L1", "L1_1", "A_1"]])).fit()
    A_model_df = A_model_df.append(pd.DataFrame([ii] + [A_model.par
        for i in range(0,4)] + ["Nan"], index = columns).transpose(),
        ignore_index=True)
    else:
        A_model = sm.Logit(np.asarray(temp_df["A"]), np.asarray(sm.add_
            temp_df[train_columns])).fit()
        A_model_df = A_model_df.append(pd.DataFrame([ii] + [A_model.par
            for i in range(0,5)], index = columns).transpose(),
            ignore_index=True)
    return(A_model_df)

```

```

In [6]: #####
##[FUNCTION] simulation_run calculates the causal effect over an
## established number of repetitions using the models for outcome (Y)
## and the covariates (L)

## -- need to create the functionality for multiple covariates

#####

def simulation_run2(df, Y_model, L1_model_df, max_time, Y_full, test_value):
    reps = 10000
    final_results = np.empty(reps)

    ### establishing treatment of interest
    A_test = [test_value]*(max_time+1)

    values = pd.DataFrame(np.random.choice(np.array(df["L1"])[df["time"] ==
    prod = np.empty(reps)

    prod[np.where(values[0] == 0)] = 1-np.mean(list(df["L1"])[df["time"] ==
    prod[np.where(values[0] != 0)] = np.mean(list(df["L1"])[df["time"] == 0])

    values[1] = np.sum(np.array([L1_model_df.ix[0,][i] for i in [1,2,5]])*r
        np.array([[1.0]*reps, list(values[0]), [A_test[0]]*reps])), a
    p_v = np.exp(values[1])/(1+np.exp(values[1]))
    values[1] = np.random.binomial(n=1, p = p_v)
    prod = prod*p_v

    values[2] = np.sum(np.array([L1_model_df.ix[1,][i] for i in [1,2,3,5,6]
        np.transpose(np.array([[1.0]*reps, list(values[1]), list(val
            [A_test[1]]*reps, [A_test[0]]*reps])), axis = 1 )
    p_v = (np.exp(values[2])/(1+np.exp(values[2])))
    values[2] = np.random.binomial(n=1, p=p_v)
    prod = prod*p_v

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for jj in range(3, max_time+1):
    values[jj] = np.sum(np.array([L1_model_df.ix[jj-1,][i] for i in range(1, 24)]
                                *np.transpose(np.array([[1.0]*reps, list(values[jj-1]),
                                list(values[jj-2]), list(values[jj-2]), [A_test[jj-1]]*reps,
                                [A_test[jj-2]]*reps, [A_test[jj-3]]*reps])), axis = 1))
    p_v = (np.exp(values[jj])/(1+np.exp(values[jj])))
    values[jj] = np.random.binomial(n=1, p=p_v)
    prod = prod*p_v

if Y_full == "TRUE":
    Y_A = [A_test]*reps
    Y_L = np.array(values)
    Y_exp = np.array(Y_model.params[0])*([1.0]*reps) + np.sum(Y_A*np.array([Y_model.params[i] for i in [1,4,6,8,10,12,14,16,18,20,22,24]]*reps, axis = 1)+np.sum([Y_model.params[i] for i in [2,3,5,7,9,11,13,15,17,19,21,23]]*Y_L, axis = 1))
    Y_exp = (np.exp(Y_exp)/(1+np.exp(Y_exp)))

else:
    Y_A = [A_test*4]*reps
    Y_L = np.array([values[0], values[1], values[2], values[3], values[4], values[5], values[6], values[7], values[8], values[9], values[10], values[11], values[12], values[13], values[14], values[15], values[16], values[17], values[18], values[19], values[20], values[21], values[22], values[23], values[24]]*reps)
    Y_exp = np.array(Y_model.params[0])*([1.0]*reps) + np.sum(Y_A*np.array([Y_model.params[i] for i in [1,4,6,8]]*reps, axis = 1)+np.sum([Y_model.params[i] for i in [2,3,5,7]]*Y_L, axis = 1))
    Y_exp = (np.exp(Y_exp)/(1+np.exp(Y_exp)))

return(np.mean(prod*Y_exp))

```

```

In [7]: #####
##[FUNCTION] pi_function creates the w_m function given the following:
## the alpha model of A_{m,i}, the dataframe, the time (m), and an
## indicator of whether this is the correct or incorrect model

## do I need to do something in here like 1-expit for those A_j == 0??
## i.e. what I did in the last line here
#####

def pi_function(m, alpha_model, df, indiv, alpha_wrong):
    product = [1]*indiv
    for jj in range(2, m+1):
        if alpha_wrong == "FALSE":
            x = alpha_model.predict(sm.add_constant(df[df.time == jj][["L1", "A_2"]], has_constant='add'))
        else:
            x = alpha_model.predict(sm.add_constant(df[df.time == jj][["L1", "A_3"]], has_constant='add'))
    product = [product[i]*x[i] for i in range(indiv)]
    return product

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        product = product*x

    x = np.array(np.divide([1]*indiv, product))
    x[np.where(df[df.time == m]["A_1"] == 0.0)] = 1 - x[np.where(df[df.time
return(x)

In [8]: #####
##[FUNCTION] alpha_model_creation creates the logistic regression
## for the observed treatment (A) data from the current and previous
## covariates and the previous treatments (A) over all time periods and
## individuals

## -- need to create the functionality for multiple covariates
#####

def alpha_model_creation(df, wrong):
    temp_df = df[df["time"]>2.0]
    if wrong == "TRUE":
        alpha_model = sm.Logit(np.asarray(temp_df.A),np.asarray(sm.add_cons
temp_df[["L1_3", "A_3"]], has_constant='add')).fit()

    else:
        alpha_model = sm.Logit(np.asarray(temp_df.A),np.asarray(sm.add_cons
temp_df[["L1", "L1_1", "A_1", "A_2"]], has_constant='

    return(alpha_model)

In [9]: #####
##[FUNCTION] DR_estimate_creation calculates the causal effect for a
## given treatment of interest (test_value), including an indicator
## of whether the correct or incorrect model is being used

#####

def DR_estimate_creation(test_value, max_time, df, indiv, wrong_alpha_model

    A_test = [test_value]*indiv
    model_df = pd.DataFrame(columns = ["time", "beta_0", "beta_1", "beta_2",
        "beta_3", "beta_4", "beta_5", "beta_6", "phi"])
    time_counter = max_time+1
    T = df[df.time == max_time]["Y"]

    while(time_counter > 3.0):

        time_df = df.loc[df.time == time_counter-1]
        time_df["T"] = np.array(T)
        pi = pi_function(time_counter-1, alpha_model, df, indiv, wrong_alph

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time_df["pi"] = pi
if wrong_s_model == "TRUE":
    train_columns = list(time_df)[0:1]
    reg_columns = '+'.join(map(str, np.append(list(time_df)[0:1], ['pi'])))
else:
    train_columns = list(time_df)[0:2] + list(time_df)[6:10]+["pi"]
    x = list(itertools.combinations(np.append(list(time_df)[0:2], ['pi']), 2))
    y = ['*'.join(map(str, np.array([x[i][0], x[i][1]]))) for i in range(len(x))]
    z = '+'.join(map(str, y))
    reg_mid_columns = '+'.join(map(str, np.append(list(time_df)[0:2], ['pi'])))
    reg_columns = '+'.join(map(str, np.array([reg_mid_columns, z])))

time_df = time_df.astype(float)
S_model = smf.ols("T~"+reg_columns, data=time_df).fit()

pi2 = pi_function(time_counter-2, alpha_model, df, indiv, wrong_alpha_model)

time_df["A"] = np.array(A_test)

if test_value == 1:
    if wrong_alpha_model == "TRUE":
        pi2 = pi2*alpha_model.predict(sm.add_constant(time_df[["L1", "A"]]))
    else:
        pi2 = pi2*alpha_model.predict(sm.add_constant(time_df[["L1", "A_2"]], has_constant = "add"))

elif test_value == 0:
    if wrong_alpha_model == "TRUE":
        pi2 = pi2*(1-alpha_model.predict(sm.add_constant(time_df[["L1", "A"]])))
    else:
        pi2 = pi2*(1-alpha_model.predict(sm.add_constant(time_df[["L1", "A_2"]], has_constant = "add"))))

time_df["pi"] = pi2
T = sp.special.expit(S_model.predict(time_df[train_columns]))
time_counter = time_counter-1

values = np.array([np.mean(df.Y), np.mean(df.A), np.mean(df.L1), np.mean(df.U),
    pearsonr(df.Y[df.time == 11], df.A[df.time == 11])[0], \
    pearsonr(df.Y[df.time == 11], df.L1[df.time == 11])[0], \
    pearsonr(df.Y[df.time == 11], df.U[df.time == 11])[0], \
    pearsonr(df.A, df.L1)[0], pearsonr(df.U, df.L1)[0], pearsonr(df.A, df.U)[0])

return(np.nanmean(T), values)

```

In [35]: #####
 ##[FUNCTION] DR_estimate_creation calculates the causal effect for a
 ## given treatment of interest (test_value), including an indicator
 ## of whether the correct or incorrect model is being used


```
#####

def DR_estimate_creation_bin(test_value, max_time, df, indiv, wrong_alpha

    A_test = [test_value]*indiv
    model_df = pd.DataFrame(columns = ["time", "beta_0", "beta_1", "beta_2",
                                       "beta_3", "beta_4", "beta_5", "beta_6", "phi"])
    time_counter = max_time+1
    T = df[df.time == max_time]["Y"]

    poly = sk.preprocessing.PolynomialFeatures(interaction_only = True)

    while(time_counter > 3.0):
        time_df = df.loc[df.time == time_counter-1]
        pi = pi_function(time_counter-1, alpha_model, df, indiv, wrong_alpha)
        time_df["pi"] = pi
        if wrong_s_model == "TRUE":
            train_columns = list(time_df)[0:1] + list(time_df)[12:14]+["pi"]
            reg_columns = '+'.join(map(str, np.append(list(time_df)[0:1], train_columns)))
        else:
            train_columns = list(time_df)[0:2] + list(time_df)[6:10]+["pi"]
            x = list(itertools.combinations(np.append(list(time_df)[0:2], train_columns), 2))
            y = ['*'.join(map(str, np.array([x[i][0], x[i][1]]))) for i in range(len(x))]
            z = '+'.join(map(str, y))
            reg_mid_columns = '+'.join(map(str, np.append(list(time_df)[0:2], train_columns)))
            reg_columns = '+'.join(map(str, np.append(reg_mid_columns, z)))
        time_df = time_df.astype(float)

        formula = "T~"+reg_columns
        glm_model = smf.glm(formula = formula, data = time_df, family=sm.families.Binomial())
        try:
            glm_results = glm_model.fit()
        except Exception as ex:
            return(float("nan"), float("nan"))

    pi2 = pi_function(time_counter-2, alpha_model, df, indiv, wrong_alpha)

    time_df["A"] = np.array(A_test)

    if test_value == 1:
        if wrong_alpha_model == "TRUE":
            pi2 = pi2*alpha_model.predict(sm.add_constant(time_df[["L1"]]))
        else:
            pi2 = pi2*alpha_model.predict(sm.add_constant(time_df[["L1", "A_2"]], has_constant = "add"))

    elif test_value == 0:
```

```

        if wrong_alpha_model == "TRUE":
            pi2 = pi2*(1-alpha_model.predict(sm.add_constant(time_df[
        else:
            pi2 = pi2*(1-alpha_model.predict(sm.add_constant(time_df[

time_df["pi"] = pi2
T = glm_results.predict(time_df[train_columns])
time_counter = time_counter-1

values = np.array([np.mean(df.Y), np.mean(df.A), np.mean(df.L1), np.me
pearsonr(df.Y[df.time == 11], df.A[df.time == 11])[0], \
pearsonr(df.Y[df.time == 11], df.L1[df.time == 11])[0], \
pearsonr(df.Y[df.time == 11], df.U[df.time == 11])[0], \
pearsonr(df.A, df.L1)[0], pearsonr(df.U, df.L1)[0], pearsonr

return(np.nanmean(T), values)

```

```

In [17]: ## NEW OFFICIAL ALPHA AND BETA FOR EVERYTHING
# alpha = np.random.uniform(low = -1.0, high = 1.0, size = 6)
# beta = np.random.uniform(low = -1.0, high = 1.0, size = 5)
# alpha[5] = alpha[5] + 1.5
# ALPHA = [ 0.58986656  0.95344212 -0.89822429 -0.95566697  0.67520365  2.
# BETA = [ 0.17868818  0.89069712  0.89037635  0.20497534  0.10442911]

```

```

In [49]: indiv = 1000
max_time = 11
num_sims = 10
alpha = [ 0.58986656, 0.95344212, -0.89822429, -0.95566697, 0.67520365, 2.
beta = [ 0.17868818, 0.89069712, 0.89037635, 0.20497534, 0.10442911]
df = data_creation2(indiv, max_time, 1, "TRUE", alpha, beta)
alpha_model = alpha_model_creation(df, "FALSE")
[treatdr1, values] = DR_estimate_creation_bin(1.0, max_time, df, indiv, '
[treatdr0, values] = DR_estimate_creation_bin(0.0, max_time, df, indiv, '
treatdr1 - treatdr0

```

Optimization terminated successfully.
Current function value: 0.404819
Iterations 6

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

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11
10
9
8
7
6
5
4
12
11
10
9
8
7
6
5
4

Out[49]: -0.000215999999999999397

```
In [164]: ## CONSTANTS
          # alpha = np.random.uniform(low = -1.0, high = 1.0, size = 6)
          # beta = np.random.uniform(low = -1.0, high = 1.0, size = 5)
          # alpha[5] = alpha[5] + 1.5
          indiv = 1000
          max_time = 11
          num_sims = 10
          alpha = [ 0.58986656, 0.95344212, -0.89822429, -0.95566697, 0.67520365, 2
          beta = [ 0.17868818, 0.89069712, 0.89037635, 0.20497534, 0.10442911]

          results_dr_lm_df = pd.DataFrame(columns = ["treatment_1", "treatment_0",
          "meanY", "meanA", "meanL1", "meanU", "corrYA", "corrYL1", "
          "corrAL1", "corrUL1", "corrAU"])

          results_dr_bin_df = pd.DataFrame(columns = ["treatment_1", "treatment_0",
          "meanY", "meanA", "meanL1", "meanU", "corrYA", "corrYL1", "
```

```

        "corrAL1", "corrUL1", "corrAU"]])

results_g_form_df = pd.DataFrame(columns = ["treatment_1", "treatment_0",
results = ["NA"]*num_sims

for ii in range(0, num_sims):
    print(ii)

    df = data_creation2(indiv, max_time, 1, "TRUE", alpha, beta)
    # Y_model = Y_model_creation(df, max_time)
    # L1_model_df = covariate_model_creation(df, max_time)
    # treatg1 = simulation_run2(df, Y_model, L1_model_df, max_time, "TRUE")
    # treatg0 = simulation_run2(df, Y_model, L1_model_df, max_time, "TRUE")
    # results_g_form_df.loc[len(results_g_form_df)+1] = [treatg1, treatg0]

    df = df.iloc[:,0:12]
    alpha_model = alpha_model_creation(df,"FALSE")
    [treatdr1, values] = DR_estimate_creation_bin(1.0, max_time, df, inc
    [treatdr0, values0] = DR_estimate_creation_bin(0.0, max_time, df, inc
    results[ii] = treatdr1-treatdr0
    # results_dr_lm_df.loc[len(results_dr_lm_df)+1] = [treatdr1_lm, treat

    # [treatdr1_bin, values] = DR_estimate_creation_bin(1.0, max_time, d
    # [treatdr0_bin, values0] = DR_estimate_creation_bin(0.0, max_time, d
    # results_dr_bin_df.loc[len(results_dr_bin_df)+1] = [treatdr1_bin, ti

    # results_g_form_df2.to_csv("G_FORM_RESULTS_FINAL2")
    # results_dr_df2.to_csv("DR_EST_RESULTS_FINAL2")

```

0

Optimization terminated successfully.

Current function value: 0.396847

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

1

Optimization terminated successfully.

Current function value: 0.396889

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

2

Optimization terminated successfully.

Current function value: 0.376417

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

3

Optimization terminated successfully.

Current function value: 0.393807

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

4

Optimization terminated successfully.

Current function value: 0.399919

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

5

Optimization terminated successfully.

Current function value: 0.399610

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

6

Optimization terminated successfully.

Current function value: 0.392920

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

7

Optimization terminated successfully.

Current function value: 0.391164

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

8

Optimization terminated successfully.

Current function value: 0.393684

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

9

Optimization terminated successfully.

Current function value: 0.395819

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
In [ ]: indiv = 1000
        max_time = 11
        num_sims = 25
        results_good = ["NA"]*num_sims
        results_bothbad = ["NA"]*num_sims
        results_alphabad = ["NA"]*num_sims
        results_sbada = ["NA"]*num_sims

        alpha = [ 0.58986656, 0.95344212, -0.89822429, -0.95566697, 0.67520365, 2.4
        beta = [ 0.17868818, 0.89069712, 0.89037635, 0.20497534, 0.10442911]

        for ii in range(0, num_sims):
            print(ii)
            df = data_creation2(indiv, max_time, 1, "TRUE", alpha, beta)
            alpha_model = alpha_model_creation(df, "FALSE")
            [treatdr1_bin, values] = DR_estimate_creation_bin(1.0, max_time, df, i
            [treatdr0_bin, values0] = DR_estimate_creation_bin(0.0, max_time, df, i
            results_good[ii] = treatdr1_bin - treatdr0_bin

            [treatdr1_bin, values] = DR_estimate_creation_bin(1.0, max_time, df, i
            [treatdr0_bin, values0] = DR_estimate_creation_bin(0.0, max_time, df, i
```

```

try:
    results_sbad[ii] = treatdr1_bin - treatdr0_bin
except:
    results_sbad[ii] = float("nan")

alpha_model = alpha_model_creation(df, "TRUE")
[treatdr1_bin_bada, values] = DR_estimate_creation_bin(1.0, max_time, c
[treatdr0_bin_bada, values0] = DR_estimate_creation_bin(0.0, max_time, c
try:
    results_alphabad[ii] = treatdr1_bin_bada - treatdr0_bin_bada
except:
    results_alphabad[ii] = float("nan")

[treatdr1_bin_bad, values] = DR_estimate_creation_bin(1.0, max_time, c
[treatdr0_bin_bad, values0] = DR_estimate_creation_bin(0.0, max_time, c
try:
    results_bothbad[ii] = treatdr1_bin_bad - treatdr0_bin_bad
except:
    results_bothbad[ii] = float("nan")

```

0

Optimization terminated successfully.

Current function value: 0.405406

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

Optimization terminated successfully.
Current function value: 0.415642
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

1

Optimization terminated successfully.
Current function value: 0.385381
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.
Current function value: 0.396968
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

2
Optimization terminated successfully.
Current function value: 0.390056
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

Optimization terminated successfully.
Current function value: 0.402116
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

3
Optimization terminated successfully.
Current function value: 0.398043
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.
Current function value: 0.410560

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

4

Optimization terminated successfully.
Current function value: 0.383125
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.

Current function value: 0.393826

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

5
Optimization terminated successfully.
Current function value: 0.393466
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

Optimization terminated successfully.
Current function value: 0.406349
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

6

Optimization terminated successfully.

Current function value: 0.390449

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.

Current function value: 0.402047

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

7

Optimization terminated successfully.
Current function value: 0.386650
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

Optimization terminated successfully.
Current function value: 0.400853
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

8
Optimization terminated successfully.
Current function value: 0.398257
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.
Current function value: 0.410700
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

9
Optimization terminated successfully.

Current function value: 0.398717
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.
Current function value: 0.411213
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

10

Optimization terminated successfully.

Current function value: 0.383170

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.

Current function value: 0.397820

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

```
11
Optimization terminated successfully.
    Current function value: 0.384015
    Iterations 6
```

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.

Current function value: 0.395767

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

12

Optimization terminated successfully.

Current function value: 0.393890

Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

Optimization terminated successfully.
Current function value: 0.404556
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

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Optimization terminated successfully.
Current function value: 0.397530
Iterations 6

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
In [42]: results_bothbad
```

```
Out[42]: [0.034728681668361849,  
          0.052784929574750561,  
          0.0044240578798566688,  
          0.040339121040233406,  
          -0.019198950044224783,  
          -0.0065464114771898174,  
          -0.028194028347795386,  
          -0.058833145583696012,  
          -0.02859261285525061,  
          -0.010454398303652912,  
          -0.022162701893000292,  
          0.0088878273217305459,  
          0.031996865894480475,  
          0.12500150944874577,  
          0.026087928603040211,  
          -0.0080618283919120515,  
          0.054746119258704207,  
          -0.018006578749518942,  
          -0.018824429296269485,  
          -0.02121252273482277,  
          -0.053700544971124087,  
          0.11777499195373609,  
          -0.01761070715858426,  
          0.0049891716972865208,  
          0.060797499790820608]
```

```
In [43]: print(np.mean(results_good))  
         print(np.nanmean(results_sbad))  
         print(np.mean(results_alphabad))  
         print(np.mean(results_bothbad))
```

```
0.00481112716923  
0.010046393773  
0.010046393773  
0.010046393773
```

```
In [227]: print(np.var(results_good))  
          print(np.var(results_sbad))
```



```

        print(np.var(results_alphabad))
        print(np.var(results_bothbad))

0.00173713137861
0.00229887577797
0.0534243669091
0.00231930452325

In [208]: print(treatdr1_bin - treatdr0_bin)
          print(treatdr1_bin_bad - treatdr0_bin_bad)
          print(treatdr1_bin_bada - treatdr0_bin_bada)

-0.0892426878481
-0.0627289311464
0.555542002611

In [131]: print(treatdr1_lm - treatdr0_lm)
          print(treatdr1_lm_bad - treatdr0_lm_bad)

-9.86977399808e-08
-7.35398700824e-08

In [100]: print(np.mean(results_dr_lm_df.difference))
          print(np.mean(results_dr_bin_df.difference))
          print(np.mean(results_g_form_df.difference))

-2.159494762343783e-08
-0.000172129999999999422
0.002704920988187329

In [101]: print(np.sqrt(np.var(results_dr_lm_df.difference/num_sims)))
          print(np.sqrt(np.var(results_dr_bin_df.difference/num_sims)))
          print(np.sqrt(np.var(results_g_form_df.difference/num_sims)))

6.37013242844e-10
2.15198362752e-05
0.000198041102169

In [139]: ## LOOKING FOR WHAT'S CAUSING OUTLIERS
          # CONSTANTS
          alpha2 = np.random.uniform(low = -1.0, high = 1.0, size = 6)
          beta2 = np.random.uniform(low = -1.0, high = 1.0, size = 5)
          alpha[5] = alpha[5] + 1.5
          indiv = 1000

```

```

max_time = 11
num_sims = 250

results_dr_df = pd.DataFrame(columns = ["treatment_1", "treatment_0", "di

for ii in range(0, num_sims):
    print(ii)

    df = data_creation2(indiv, max_time, 1, "TRUE", alpha2, beta2)
    df = df.iloc[:,0:12]
    treat1 = DR_estimate_creation(1.0, max_time, df, indiv, "TRUE")
    treat0 = DR_estimate_creation(0.0, max_time, df, indiv, "TRUE")
    results_dr_df.loc[len(results_dr_df)+1] = [treat1, treat0, treat1-treat0]

    if (treat1-treat0)>.01:
        df.to_csv("dr_test"+str(ii))
    elif (treat1-treat0)<-.01:
        df.to_csv("dr_test"+str(ii))

```

0

Optimization terminated successfully.

Current function value: 0.653024

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.653024  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:175: FutureWarning: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:175: FutureWarning: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
1  
Optimization terminated successfully.  
    Current function value: 0.652385  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html#boolean-indexing>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652385
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html#boolean-indexing>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649687
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649687
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

3

Optimization terminated successfully.

Current function value: 0.653468

Iterations 4

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.

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`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

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`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653468

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

4

Optimization terminated successfully.
Current function value: 0.654473
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654473
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

5
Optimization terminated successfully.
Current function value: 0.648505
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648505
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

6

Optimization terminated successfully.

Current function value: 0.647686

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.647686

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

7

Optimization terminated successfully.
Current function value: 0.648389
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648389

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

8

Optimization terminated successfully.

Current function value: 0.649937

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649937
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

9

Optimization terminated successfully.

Current function value: 0.650039

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650039

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

10

Optimization terminated successfully.

Current function value: 0.646565

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.646565  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
11  
Optimization terminated successfully.  
    Current function value: 0.656858  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```


A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.656858
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

12
Optimization terminated successfully.

Current function value: 0.650006
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650006
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

13

Optimization terminated successfully.
Current function value: 0.649071
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649071
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

14

Optimization terminated successfully.

Current function value: 0.653408

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653408

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

15

Optimization terminated successfully.

Current function value: 0.651013

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651013
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
16
```

```
Optimization terminated successfully.
```

```
Current function value: 0.650917
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.650917
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.646631

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.646631

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.643088

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.643088
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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```
Optimization terminated successfully.  
    Current function value: 0.650095  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.650095  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

20

Optimization terminated successfully.

Current function value: 0.658650

Iterations 4

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.658650

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

21

Optimization terminated successfully.
Current function value: 0.652509
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652509
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

22
Optimization terminated successfully.
Current function value: 0.650895
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650895
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

23

Optimization terminated successfully.

Current function value: 0.646582

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.646582

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

24

Optimization terminated successfully.

Current function value: 0.654331

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654331

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

25

Optimization terminated successfully.

Current function value: 0.654807

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654807

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

26

Optimization terminated successfully.

Current function value: 0.645298

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.645298

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

27

Optimization terminated successfully.

Current function value: 0.646786

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.646786  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
28  
Optimization terminated successfully.  
    Current function value: 0.652418  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652418
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

29
Optimization terminated successfully.

Current function value: 0.652484
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652484
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.651211
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651211
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

31

Optimization terminated successfully.

Current function value: 0.654222

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654222

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

32

Optimization terminated successfully.

Current function value: 0.650107

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650107
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

33

Optimization terminated successfully.

Current function value: 0.654618

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654618

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

34

Optimization terminated successfully.
Current function value: 0.644677
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.644677

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

35

Optimization terminated successfully.

Current function value: 0.644716

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.644716
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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```
Optimization terminated successfully.  
    Current function value: 0.654463  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.654463  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.646909

Iterations 4

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.646909

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.648172
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648172
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.651575
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651575
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.647317

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.647317

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

41

Optimization terminated successfully.
Current function value: 0.651380
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651380

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

42

Optimization terminated successfully.

Current function value: 0.651807

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651807

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

43

Optimization terminated successfully.

Current function value: 0.651515

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651515

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

44

Optimization terminated successfully.
Current function value: 0.648731
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.648731  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
45  
Optimization terminated successfully.  
    Current function value: 0.649454  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649454
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

46
Optimization terminated successfully.

Current function value: 0.651787
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651787
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

47
Optimization terminated successfully.
Current function value: 0.653448
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653448
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

48

Optimization terminated successfully.

Current function value: 0.655107

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655107

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

49

Optimization terminated successfully.

Current function value: 0.651144

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651144
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

50

Optimization terminated successfully.

Current function value: 0.652352

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652352

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

51

Optimization terminated successfully.

Current function value: 0.648932

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648932

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

52

Optimization terminated successfully.

Current function value: 0.649785

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649785
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

53

```
Optimization terminated successfully.  
    Current function value: 0.650499  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
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```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.650499  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
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```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

54

Optimization terminated successfully.

Current function value: 0.653479

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653479

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

55

Optimization terminated successfully.
Current function value: 0.652772
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652772
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

56
Optimization terminated successfully.
Current function value: 0.654269
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654269
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

57

Optimization terminated successfully.

Current function value: 0.652305

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652305

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

58

Optimization terminated successfully.

Current function value: 0.652812

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.652812
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
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```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
59
```

```
Optimization terminated successfully.
```

```
Current function value: 0.651875
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651875
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

60

Optimization terminated successfully.

Current function value: 0.656073

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.656073

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

61

Optimization terminated successfully.

Current function value: 0.644099

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.644099  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
62  
Optimization terminated successfully.  
    Current function value: 0.653985  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653985
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

63
Optimization terminated successfully.

Current function value: 0.647540
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647540
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

64
Optimization terminated successfully.
Current function value: 0.652530
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652530
Iterations 4

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
65
```

```
Optimization terminated successfully.
```

```
Current function value: 0.654875
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654875

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

66

Optimization terminated successfully.

Current function value: 0.652398

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652398
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

67

Optimization terminated successfully.

Current function value: 0.654883

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654883

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

68

Optimization terminated successfully.

Current function value: 0.652619

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652619

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

69

Optimization terminated successfully.

Current function value: 0.646903

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.646903
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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```
Optimization terminated successfully.  
    Current function value: 0.649946  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.649946  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
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```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.654862

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654862

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.653359
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653359
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

73

Optimization terminated successfully.
Current function value: 0.656123
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.656123
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

74

Optimization terminated successfully.

Current function value: 0.649525

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649525

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

75

Optimization terminated successfully.
Current function value: 0.656041
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.656041

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

76

Optimization terminated successfully.

Current function value: 0.652693

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652693
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

77

Optimization terminated successfully.

Current function value: 0.650276

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650276

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

78

Optimization terminated successfully.

Current function value: 0.652912

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.652912  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
79
```

```
Optimization terminated successfully.  
    Current function value: 0.647495  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```


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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647495
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

80
Optimization terminated successfully.

Current function value: 0.648909
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648909
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

81
Optimization terminated successfully.
Current function value: 0.645891
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.645891
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

82

Optimization terminated successfully.

Current function value: 0.648614

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648614

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

83

Optimization terminated successfully.

Current function value: 0.652293

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

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unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652293
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
84
```

```
Optimization terminated successfully.
```

```
Current function value: 0.654071
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.654071
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

85

Optimization terminated successfully.

Current function value: 0.650777

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650777

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

86

Optimization terminated successfully.

Current function value: 0.658602

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.658602
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

87

```
Optimization terminated successfully.  
    Current function value: 0.646074  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.646074  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

88

Optimization terminated successfully.

Current function value: 0.650656

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650656

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

89

Optimization terminated successfully.
Current function value: 0.652426
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652426
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

90
Optimization terminated successfully.
Current function value: 0.649103
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649103
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

91

Optimization terminated successfully.

Current function value: 0.646923

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.646923

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

92

Optimization terminated successfully.

Current function value: 0.651270

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651270

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

93

Optimization terminated successfully.

Current function value: 0.652662

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652662
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

94

```
Optimization terminated successfully.
```

```
    Current function value: 0.651160
```

```
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
    Current function value: 0.651160
```

```
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

95

Optimization terminated successfully.

Current function value: 0.649881

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.649881  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
96
```

```
Optimization terminated successfully.  
    Current function value: 0.651592  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651592
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

97
Optimization terminated successfully.

Current function value: 0.652580
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652580
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

98

Optimization terminated successfully.
Current function value: 0.644722
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.644722
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

99

Optimization terminated successfully.

Current function value: 0.648558

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648558

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

100

Optimization terminated successfully.

Current function value: 0.654811

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654811
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
101
```

```
Optimization terminated successfully.
```

```
Current function value: 0.658648
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
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```

```
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```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.658648
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.655893

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655893

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.651983

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651983
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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```
Optimization terminated successfully.  
    Current function value: 0.652627  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.652627  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

105

Optimization terminated successfully.

Current function value: 0.655233

Iterations 4

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655233

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

106

Optimization terminated successfully.

Current function value: 0.653634

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10users.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:107: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:107: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653634
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10users.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10users.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:107: Unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:107: Unorderable types: int() > str(), sort order is undefined for incomparable objects

107
Optimization terminated successfully.
Current function value: 0.649974
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649974
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

108

Optimization terminated successfully.

Current function value: 0.653177

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653177

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/109>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/109>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

109

Optimization terminated successfully.

Current function value: 0.647512

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/109>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/109>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.647512
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
110
```

```
Optimization terminated successfully.
```

```
Current function value: 0.649366
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```


See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649366
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

111

Optimization terminated successfully.

Current function value: 0.654089

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654089

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

112

Optimization terminated successfully.

Current function value: 0.644632

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.644632  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
113  
Optimization terminated successfully.  
    Current function value: 0.652375  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652375
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.651525
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651525
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

115
Optimization terminated successfully.
Current function value: 0.656515
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.656515
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.649507

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649507

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

117

Optimization terminated successfully.

Current function value: 0.652916

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652916
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

118

Optimization terminated successfully.

Current function value: 0.654660

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654660

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

119

Optimization terminated successfully.

Current function value: 0.643164

Iterations 5

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.643164

Iterations 5

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.650760

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650760
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

121

```
Optimization terminated successfully.  
    Current function value: 0.653095  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.653095  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.653906

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653906

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.652804
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652804
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.655173
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.655173
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.652892

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652892

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.653556

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.653556
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
127
```

```
Optimization terminated successfully.
```

```
Current function value: 0.647633
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647633
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

128

Optimization terminated successfully.

Current function value: 0.651574

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651574

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

129

Optimization terminated successfully.

Current function value: 0.646397

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.646397  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
130  
Optimization terminated successfully.  
    Current function value: 0.644061  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.644061
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

131
Optimization terminated successfully.

Current function value: 0.644133
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.644133
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: int() > str(), sort order is undefined for incomparable objects

132

Optimization terminated successfully.
Current function value: 0.647309
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647309
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

133

Optimization terminated successfully.

Current function value: 0.650512

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650512

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

134

Optimization terminated successfully.

Current function value: 0.646407

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.646407
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects


```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
135
```

```
Optimization terminated successfully.
```

```
Current function value: 0.653673
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.653673
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

136

Optimization terminated successfully.

Current function value: 0.648827

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648827

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

137

Optimization terminated successfully.

Current function value: 0.653480

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653480
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

138

```
Optimization terminated successfully.  
    Current function value: 0.652513  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.652513  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

139

Optimization terminated successfully.

Current function value: 0.649148

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649148

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

140

Optimization terminated successfully.
Current function value: 0.653427
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653427
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

141
Optimization terminated successfully.
Current function value: 0.648657
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648657
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

142

Optimization terminated successfully.

Current function value: 0.656276

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.656276

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

143

Optimization terminated successfully.

Current function value: 0.649126

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649126

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

144

Optimization terminated successfully.

Current function value: 0.652303

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652303

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

145

Optimization terminated successfully.

Current function value: 0.654563

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654563

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

146

Optimization terminated successfully.
Current function value: 0.651718
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.651718  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
147  
Optimization terminated successfully.  
    Current function value: 0.654432  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```


A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654432
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

148
Optimization terminated successfully.

Current function value: 0.654556
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654556
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

149
Optimization terminated successfully.
Current function value: 0.657200
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.657200
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

150

Optimization terminated successfully.

Current function value: 0.652226

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.652226
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
151
```

```
Optimization terminated successfully.
```

```
Current function value: 0.652732
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652732
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
152
```

```
Optimization terminated successfully.
```

```
Current function value: 0.650704
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.650704
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
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```
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```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

153

Optimization terminated successfully.

Current function value: 0.654652

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654652

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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Try using `.loc[row_indexer,col_indexer] = value` instead

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

154

Optimization terminated successfully.

Current function value: 0.648481

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648481
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

155

```
Optimization terminated successfully.  
    Current function value: 0.648505  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.648505  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

156

Optimization terminated successfully.

Current function value: 0.650727

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650727

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

157

Optimization terminated successfully.
Current function value: 0.655638
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.655638
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

158
Optimization terminated successfully.
Current function value: 0.653487
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653487
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

159

Optimization terminated successfully.

Current function value: 0.655877

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655877

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

160

Optimization terminated successfully.

Current function value: 0.646188

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.646188
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/10min.html
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
161
```

```
Optimization terminated successfully.
```

```
Current function value: 0.653256
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653256

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

162

Optimization terminated successfully.

Current function value: 0.651056

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651056

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

163

Optimization terminated successfully.
Current function value: 0.655050
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.655050  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
164  
Optimization terminated successfully.  
    Current function value: 0.654001  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654001
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

165
Optimization terminated successfully.

Current function value: 0.649277
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649277
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: int() > str(), sort order is undefined for incomparable objects

166
Optimization terminated successfully.
Current function value: 0.653582
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:111: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653582
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

167

Optimization terminated successfully.

Current function value: 0.655886

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655886

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

168

Optimization terminated successfully.

Current function value: 0.653925

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653925
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
169
```

```
Optimization terminated successfully.
```

```
Current function value: 0.652837
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
Current function value: 0.652837
```

```
Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.646143

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.646143

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

171

Optimization terminated successfully.

Current function value: 0.650515

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650515
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

172

```
Optimization terminated successfully.  
    Current function value: 0.652276  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.652276  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.648275

Iterations 4

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/`

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `str()` < `int()`, sort order is undefined for incomparable objects

`/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index`

unorderable types: `int()` > `str()`, sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648275

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

174

Optimization terminated successfully.
Current function value: 0.652556
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652556
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.653457
Iterations 4

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.653457
Iterations 4

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.649594

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649594

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

177

Optimization terminated successfully.

Current function value: 0.650803

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650803

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.651943

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651943
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

179

Optimization terminated successfully.

Current function value: 0.653742

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653742

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

180

Optimization terminated successfully.

Current function value: 0.655143

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.655143  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
181  
Optimization terminated successfully.  
    Current function value: 0.648692  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.648692
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

182
Optimization terminated successfully.

Current function value: 0.650393
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650393
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

183
Optimization terminated successfully.
Current function value: 0.650355
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650355
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

184

Optimization terminated successfully.

Current function value: 0.648444

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.648444

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

185

Optimization terminated successfully.

Current function value: 0.649935

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649935
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

186

Optimization terminated successfully.

Current function value: 0.652589

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652589

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

187

Optimization terminated successfully.

Current function value: 0.654647

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654647

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

188

Optimization terminated successfully.

Current function value: 0.654237

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.654237
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

189

```
Optimization terminated successfully.  
    Current function value: 0.654420  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.654420  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

190

Optimization terminated successfully.

Current function value: 0.654790

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654790

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

191

Optimization terminated successfully.

Current function value: 0.649943

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649943
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

192
Optimization terminated successfully.
Current function value: 0.651180
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651180
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

193

Optimization terminated successfully.

Current function value: 0.655410

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.655410

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

194

Optimization terminated successfully.

Current function value: 0.652243

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652243

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

195

Optimization terminated successfully.

Current function value: 0.657743

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.657743

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

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```
Optimization terminated successfully.
```

```
    Current function value: 0.651079
```

```
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.
```

```
    Current function value: 0.651079
```

```
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
```

```
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```


/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

197

Optimization terminated successfully.

Current function value: 0.650674

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.650674  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
198  
Optimization terminated successfully.  
    Current function value: 0.651276  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651276
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.

Current function value: 0.652889
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652889
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.651274
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651274
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

201

Optimization terminated successfully.

Current function value: 0.649337

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649337

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

202

Optimization terminated successfully.

Current function value: 0.649772

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649772
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

203

Optimization terminated successfully.

Current function value: 0.649492

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649492

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

204

Optimization terminated successfully.

Current function value: 0.649035

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649035

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

205

Optimization terminated successfully.

Current function value: 0.652637

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652637
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

206

```
Optimization terminated successfully.  
    Current function value: 0.654931  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
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Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.654931  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
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See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
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```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

207

Optimization terminated successfully.

Current function value: 0.656409

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.656409

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

208

Optimization terminated successfully.
Current function value: 0.652094
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652094
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

209
Optimization terminated successfully.
Current function value: 0.652896
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652896
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

210

Optimization terminated successfully.

Current function value: 0.649309

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649309

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

211

Optimization terminated successfully.
Current function value: 0.649355
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.649355

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

212

Optimization terminated successfully.

Current function value: 0.652414

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652414

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

213

Optimization terminated successfully.

Current function value: 0.652646

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652646

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

214

Optimization terminated successfully.
Current function value: 0.654005
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.654005  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
215  
Optimization terminated successfully.  
    Current function value: 0.651551  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```


A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651551
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

216
Optimization terminated successfully.

Current function value: 0.656003
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.656003
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

217
Optimization terminated successfully.
Current function value: 0.651766
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651766
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

218

Optimization terminated successfully.

Current function value: 0.654244

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654244

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

219

Optimization terminated successfully.

Current function value: 0.647718

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647718
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

220

Optimization terminated successfully.

Current function value: 0.651871

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651871

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

221

Optimization terminated successfully.

Current function value: 0.654097

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.654097

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

222

Optimization terminated successfully.

Current function value: 0.647838

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.647838
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

223

```
Optimization terminated successfully.  
    Current function value: 0.652276  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
Optimization terminated successfully.  
    Current function value: 0.652276  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

224

Optimization terminated successfully.

Current function value: 0.652517

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652517

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

225

Optimization terminated successfully.
Current function value: 0.651923
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651923
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:101: Unorderable types: int() > str(), sort order is undefined for incomparable objects

226
Optimization terminated successfully.
Current function value: 0.652142
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652142
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

227

Optimization terminated successfully.

Current function value: 0.653569

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653569

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

228

Optimization terminated successfully.

Current function value: 0.650481

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650481

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

229

Optimization terminated successfully.

Current function value: 0.650012

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650012

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

230

Optimization terminated successfully.

Current function value: 0.650170

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650170

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

231

Optimization terminated successfully.

Current function value: 0.657023

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.657023  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
232  
Optimization terminated successfully.  
    Current function value: 0.651286  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.651286
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

233
Optimization terminated successfully.

Current function value: 0.652354
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652354
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

234
Optimization terminated successfully.
Current function value: 0.652618
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.652618
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

235

Optimization terminated successfully.

Current function value: 0.647184

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.647184

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

236

Optimization terminated successfully.

Current function value: 0.656276

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.656276
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

237

Optimization terminated successfully.

Current function value: 0.652133

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652133

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

238

Optimization terminated successfully.

Current function value: 0.650515

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650515

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

239

Optimization terminated successfully.

Current function value: 0.650727

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650727
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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```
Optimization terminated successfully.  
    Current function value: 0.648324  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: str() < int(), sort order is undefined for incomparable objects

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.648324  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

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```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

241

Optimization terminated successfully.

Current function value: 0.650717

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.650717

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

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Optimization terminated successfully.
Current function value: 0.650496
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.650496
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: str() < int(), sort order is undefined for incomparable objects
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py:100: Unorderable types: int() > str(), sort order is undefined for incomparable objects

243
Optimization terminated successfully.
Current function value: 0.649797
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.649797
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

244

Optimization terminated successfully.

Current function value: 0.656217

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/i>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.656217

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: int() > str(), sort order is undefined for incomparable objects

245

Optimization terminated successfully.
Current function value: 0.652655
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/indexing.py

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.652655

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/10min.html>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

246

Optimization terminated successfully.

Current function value: 0.651753

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.651753

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

247

Optimization terminated successfully.

Current function value: 0.653010

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.

Current function value: 0.653010

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

248

Optimization terminated successfully.

Current function value: 0.648465

Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
Optimization terminated successfully.  
    Current function value: 0.648465  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: str() < int(), sort order is undefined for incomparable objects
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index
```

```
unorderable types: int() > str(), sort order is undefined for incomparable objects
```

```
249  
Optimization terminated successfully.  
    Current function value: 0.655738  
    Iterations 4
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

```
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/
```

```
/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_
```

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

Optimization terminated successfully.
Current function value: 0.655738
Iterations 4

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
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See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/ipykernel/_

A value is trying to be set on a copy of a slice from a DataFrame.
Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: <http://pandas.pydata.org/pandas-docs/stable/>

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: str() < int(), sort order is undefined for incomparable objects

/Users/morganfbreitmeyer/anaconda/envs/py3k/lib/python3.5/site-packages/pandas/index

unorderable types: int() > str(), sort order is undefined for incomparable objects

```
In [134]: data = [go.Histogram(x = results_dr_df.difference)]  
          py.iplot(data)
```

```

Out[134]: <plotly.tools.PlotlyDisplay object>

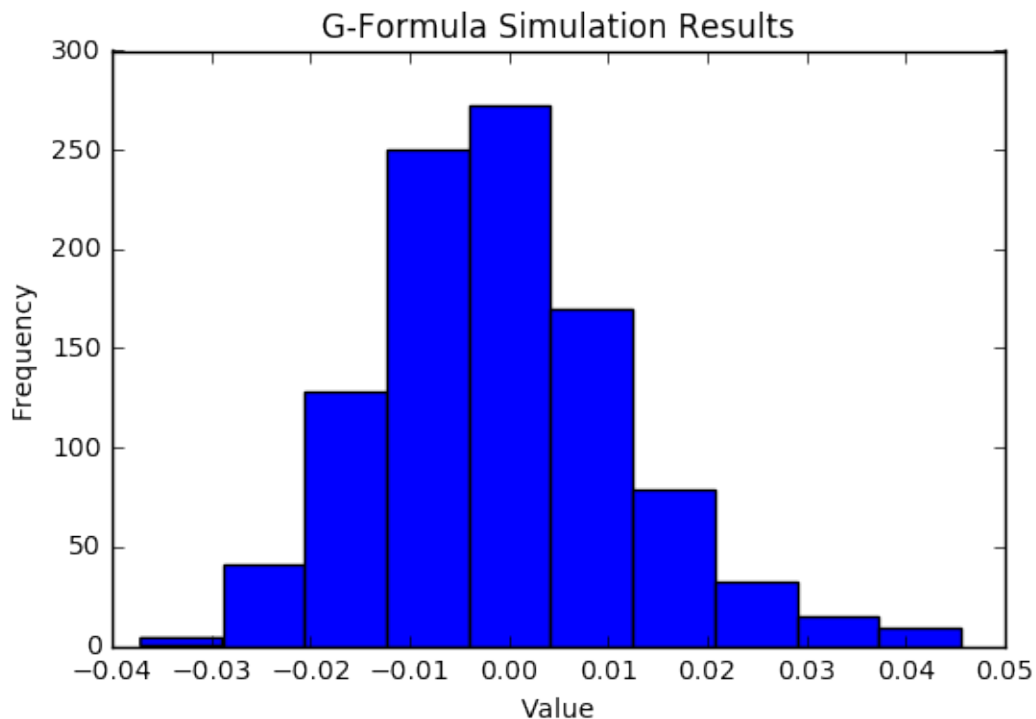
In [132]: results_dr_df.to_csv("DR_EST_RERUN_RESULTS")

In [44]: Results_g_formula = pd.DataFrame(results_g_formula)
Results_g_formula.to_csv("G_FORM_RESULTS")

Results_dr_estimator = pd.DataFrame(results_dr_estimator)
Results_dr_estimator.to_csv("DR_EST_RESULTS")

In [49]: %matplotlib inline
plt.hist(results_g_formula)
plt.title("G-Formula Simulation Results")
plt.xlabel("Value")
plt.ylabel("Frequency")
plt.savefig('g-formula-sim.png', bbox_inches='tight')

```



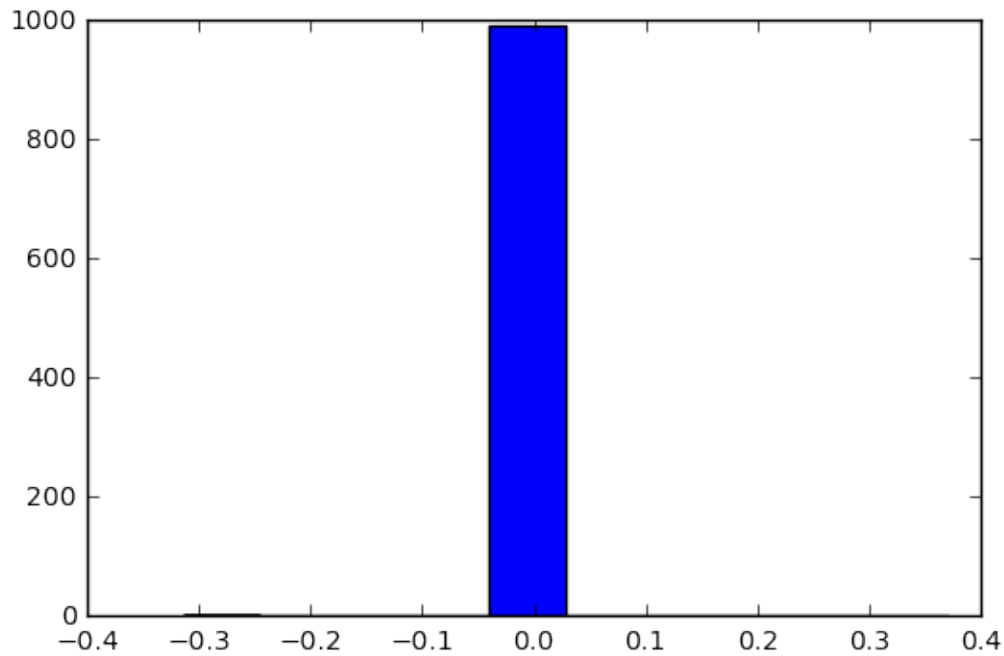
```

In [41]: plt.hist(results_dr_estimator)
plt.title("G-Formula Simulation Results")
plt.xlabel("Value")
plt.ylabel("Frequency")
plt.savefig('g-formula-sim.png', bbox_inches='tight')

Out[41]: (array([ 1.,  1.,  1.,  1., 992.,  0.,  1.,  1.,  0.,
array([-0.31307606, -0.24472614, -0.17637623, -0.10802631, -0.03967639,

```

```
0.02867353, 0.09702344, 0.16537336, 0.23372328, 0.3020732 ,
0.37042311]),
<a list of 10 Patch objects>)
```



```
In [71]: plotly.tools.set_credentials_file(username='mbreitmeyer', api_key='Jfc79Cu
```

```
fig = plt.figure()
data = [go.Histogram(x = results_g_formula)]
py.iplot(data)
```

High five! You successfully sent some data to your account on plotly. View your plot

```
Out[71]: <plotly.tools.PlotlyDisplay object>
```

```
<matplotlib.figure.Figure at 0x11ddc9668>
```

```
In [86]: fig = plt.figure()
data = [go.Histogram(x = results_dr_estimator)]
py.iplot(data)
```

```
Out[86]: <plotly.tools.PlotlyDisplay object>
```

```
<matplotlib.figure.Figure at 0x11ddbe748>
```

```

In [760]: trace1 = go.Histogram(
            x=results_g_form_df3.difference,
            opacity=0.75,
            name = "G-formula"
        )
        trace2 = go.Histogram(
            x=results_dr_df3.difference,
            opacity=0.75,
            name = "DR estimator"
        )

        data = [trace1, trace2]
        layout = go.Layout(barmode='overlay', xaxis = dict(range = [-0.05, 0.05]))

        fig = go.Figure(data=data, layout=layout)

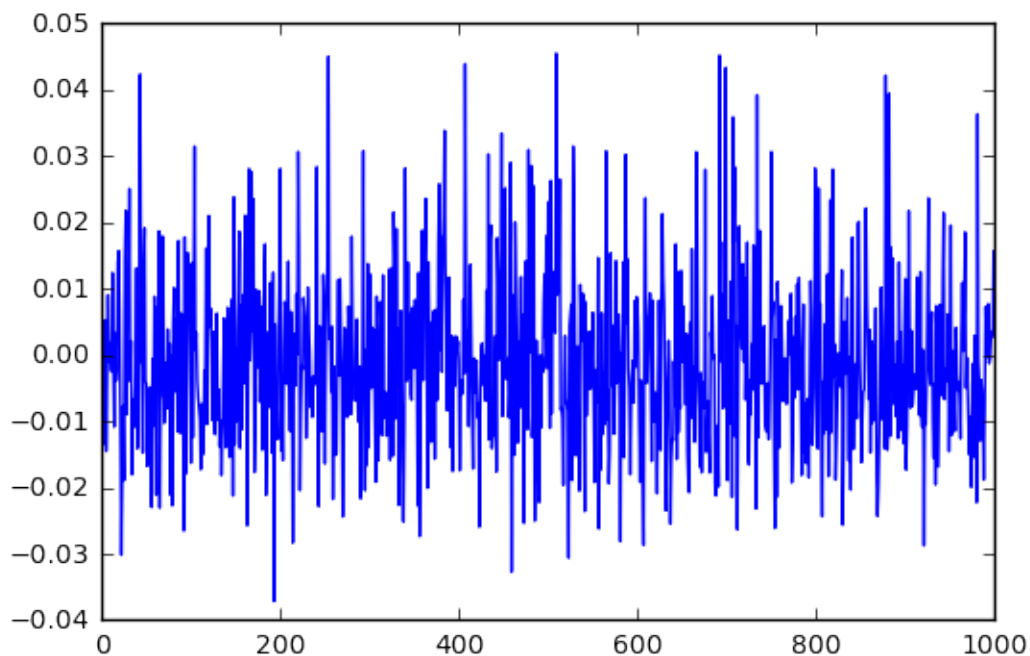
        py.iplot(fig, filename='overlaid histogram')

```

Out[760]: <plotly.tools.PlotlyDisplay object>

```
In [42]: plt.plot(results_g_formula)
```

Out[42]: [<matplotlib.lines.Line2D at 0x1187ed710>]



```
In [93]: results_g_form_df
```



```

trace1 = go.Scatter(
    x=results_g_form_df.difference,
    name='G Form'
)
trace2 = go.Scatter(
    x=results_dr_lm_df.difference,
    name='LR DR'
)
trace3 = go.Scatter(
    x=results_dr_bin_df.difference,
    name='Binomial DR'
)

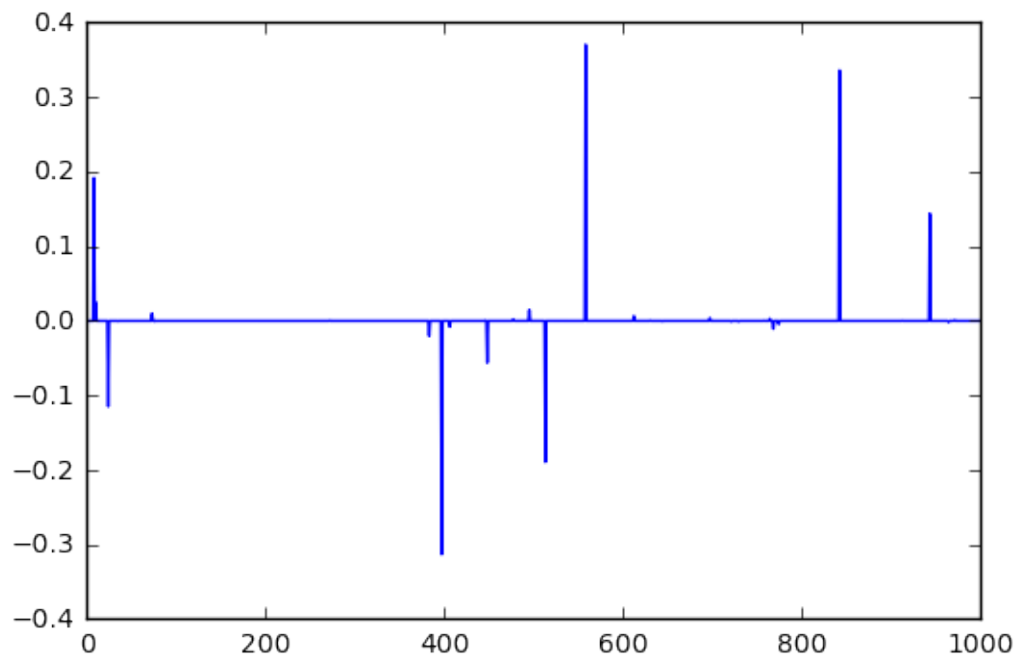
data = [trace1, trace2, trace3]
layout = go.Layout(xaxis = dict(range = [-0.1, 0.1]))
fig = go.Figure(data=data, layout=layout)
py.iplot(fig)

```

Out[93]: <plotly.tools.PlotlyDisplay object>

In [43]: plt.plot(results_dr_estimator)

Out[43]: [<matplotlib.lines.Line2D at 0x119cf8438>]



In []:

In []: