

# Task 1

12/21/2020

## Task 1

### Introduction

In the present part of the report, we will investigate to what extent we will be able to classify respondents in their country, and then we will compare the performance of different classifiers.

### Data

The data have been obtained from the 6<sup>th</sup> Wave of the World Value Survey, which was carried out between 2010 and 2013. The data include the standardized scores of 3929 respondents of 3 countries on 32 variables, that have been summarized with 7 factors obtained using exploratory factor analysis with oblique rotation. The 7 factors related to the 32 variables are:

1. **Rights**, that it's related to homosexuality, prostitution, abortion, divorce, sex before marriage, suicide;
2. **Steal**, that it's related to claiming benefits, avoiding fare, stealing property, cheating taxes, accept a bribe;
3. **Crime**, that it's related to robberies, alcohol, police-military, racist behavior, drug sale;
4. **Religion**, that it's related to: attend religious services, pray, the importance of God;
5. **Realize self**, that it's related to creative, rich, spoil oneself, be successful, exciting life;
6. **Do good**, that it's related to security, do good, behave properly, protect environment, tradition;
7. **Violence**, that it's related to beat wife, parents beating children, violence;

### Methodology

To investigate the possibility to classify the respondents in their country based on the 7 factors we have used the canonical discriminant analysis. We have applied the linear regression function with 7 predictors and 1 dependent variable, the Country. Then to the output, we have applied the Canonical Discriminant Analysis.

```
lm.out<-lm(cbind(F_rights, F_steal, F_crime,F_religion,F_realizeself,F_dogood,
                 F_violence)~as.factor(country), data=dwvs)
candisc.out<-candisc(lm.out)
print(candisc.out)
```

Canonical Discriminant Analysis for as.factor(country):

	CanRsq	Eigenvalue	Difference	Percent	Cumulative
1	0.80691	4.17882	3.5622	87.142	87.142
2	0.38142	0.61661	3.5622	12.858	100.000

Test of H0: The canonical correlations in the

current row and all that follow are zero

```

LR test stat approx F numDF denDF Pr(> F)
1      0.11944 1059.53    14  7834 < 2.2e-16 ***
2      0.61858  402.65     6  3918 < 2.2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

As we can see both the Square Canonical Correlation are significant, but the discriminating power to separate between the groups is higher for the first than for the second discriminant function: 0.81 and 0.38 respectively. The LR test indicates that the discriminant analysis is meaningful. The first test's null hypothesis is  $H_0 : \lambda_1 = \lambda_2 = 0$  and this hypothesis as we can see from the *p-value* is rejected. The *null* hypothesis of the first test it's equivalent to the test for  $H_0 : \mu_{Netherlands} = \mu_{Nigeria} = \mu_{Philippines}$ .

The second LR test indicates that  $H_0 : \lambda_2 = 0$ , and also this null hypothesis is rejected. So even if the second discriminant function has less discriminant power cannot be omitted and it's statistically meaningful.

On our analysis, we have also applied two different tests for centroids and to test the equal covariance.

To see if the three-country has different centroids and confirm the results of the canonical discriminant analysis we have applied on the linear regression the function *Manova*:

```
summary(Manova(lm.out), test="Wilks")
```

Type II MANOVA Tests:

Sum of squares and products for error:

	F_rights	F_steal	F_crime	F_religion	F_realizeself
F_rights	2144.25752	1220.99047	24.197889	-516.74466	190.94559
F_steal	1220.99047	2897.38038	235.937809	-77.66905	99.99545
F_crime	24.19789	235.93781	3216.820606	-61.84878	40.72785
F_religion	-516.74466	-77.66905	-61.848780	1417.68129	-215.01914
F_realizeself	190.94559	99.99545	40.727853	-215.01914	2098.88393
F_dogood	-281.98487	-431.66636	-224.176736	355.46395	634.31039
F_violence	1270.23698	1552.67341	3.264745	-31.35059	50.25643
	F_dogood	F_violence			
F_rights	-281.9849	1270.236978			
F_steal	-431.6664	1552.673408			
F_crime	-224.1767	3.264745			
F_religion	355.4640	-31.350590			
F_realizeself	634.3104	50.256434			
F_dogood	2777.8489	-481.800194			
F_violence	-481.8002	3394.491184			

```
Term: as.factor(country)
```

Sum of squares and products for the hypothesis:

	F_rights	F_steal	F_crime	F_religion	F_realizeself
F_rights	1780.7425	-503.8490	-819.5963	-2050.7548	-1753.4222
F_steal	-503.8490	1027.6196	773.1158	939.2366	199.2226
F_crime	-819.5963	773.1158	708.1794	1163.3941	625.4688
F_religion	-2050.7548	939.2366	1163.3941	2507.3187	1898.8676
F_realizeself	-1753.4222	199.2226	625.4688	1898.8676	1826.1161

```

F_dogood      -1293.7342  794.3235  857.3368  1663.6129  1130.2208
F_violence     -852.6546  570.1760  593.5765  1115.3566   729.2346
      F_dogood F_violence
F_rights      -1293.7342 -852.6546
F_steal        794.3235  570.1760
F_crime        857.3368  593.5765
F_religion     1663.6129  1115.3566
F_realizeself  1130.2208   729.2346
F_dogood       1147.1511  778.6277
F_violence      778.6277  530.5088

```

```
Multivariate Test: as.factor(country)
```

```

      Df test stat approx F num Df den Df      Pr(>F)
as.factor(country)  2 0.1194435 1059.531      14   7834 < 2.22e-16 ***

```

```
---
```

```
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

The *p-value* is small, and the test confirms that the analysis is meaningful and that at least there is a pair of centroids that differs significantly. The function *Manova* in *r* doing the *Wilks Lambda test* uses the Rao approximation. To test the assumption on equal population covariance we have applied to the linear regression the function *boxM*:

```
boxM(lm.out)
```

```
Box's M-test for Homogeneity of Covariance Matrices
```

```
data: Y
```

```
Chi-Sq (approx.) = 5479.2, df = 56, p-value < 2.2e-16
```

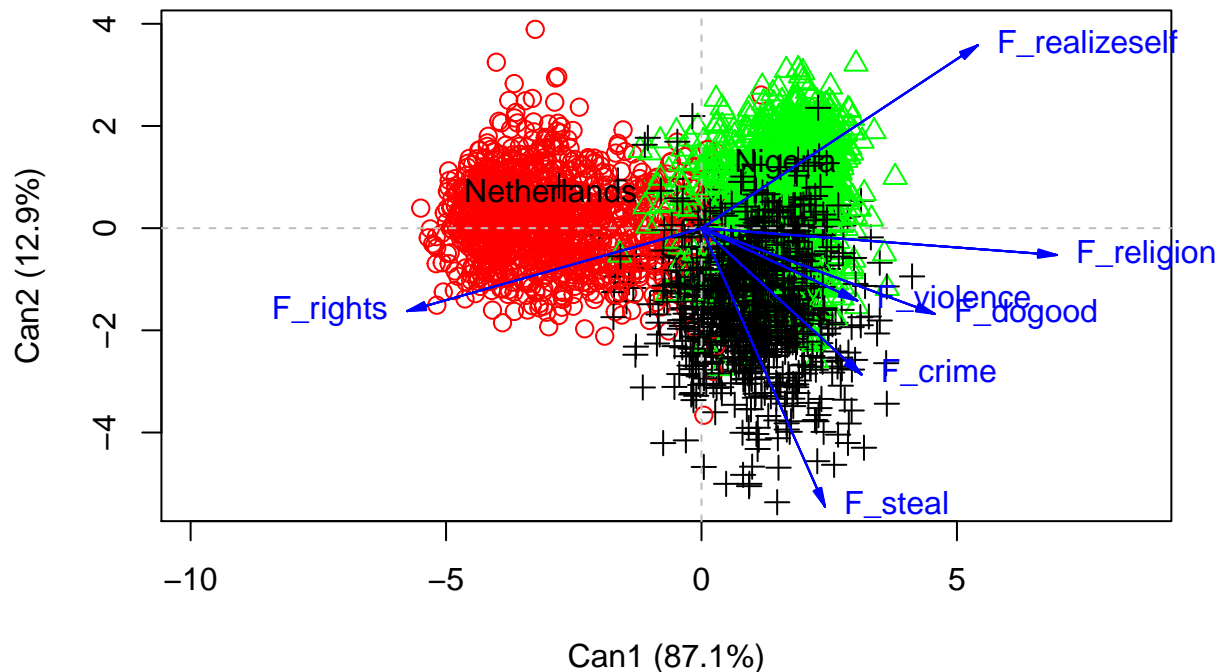
The test of Box indicates that  $H_0$  of equal covariance matrices across groups is not supported by data.

## Plot

To complete the Canonical Discriminant analysis, we have plotted the three countries and the 7 variables.

```
plot(candisc.out,col=c("red","green","black"),pch=c(1,2,3),cex=1.2)
```

```
## Vector scale factor set to 7.827
```



We can see that the group of individuals in *red* are Netherlands citizens, the group of individuals in *green* are Nigerians citizens and the group of individuals in *black* are Philippines citizens. In blue we can see the 7 explanatory variables. The plot shows a clear separation between Netherlands and the other two countries on the first discriminant function while the second discriminant function could help to separate Nigeria and the Philippines. The first discriminant function especially correlates with the factors: rights, religion, realize self, and do good; whereas the second discriminant function correlates with the factors: steal and realize self. The two-factor crime and violence have a lower correlation on the two factors and so has in this analysis lower importance on separate the 3 countries.

### Compare the performance of different classifiers

We are going now to compare the performance of different classifiers to classify respondents in their country based on the 7 factors. To be able to do that we are going to compute the training error and the leave-one-out cross-validation error. The classification method that we are going to compare are: - Linear discriminant analysis; - Quadratic discriminant analysis; - K-nearest neighbors with  $k$  ranging from 1 to 100; - High Dimensional Discriminant Analysis;

### Linear discriminant analysis

This method aims to separate in the clearest possible way different groups using the linear combination of observed independent variables. The linear discriminant analysis method assumes that the covariance structure of the independent variable is the same across groups. In our analysis, we know from the Box test previously computed that this assumption is not supported by the data. It will be an interesting test if in this case the Quadratic discriminant analysis, where the assumption on the equality of covariance matrix

is relaxed, will perform better. In the linear discriminant analysis, we have applied the method of Fisher correcting for the different prior probability.

```
lda.out3<-lda(country ~ F_rights+F_steal+F_crime+F_religion+F_realizeself+F_dogood+F_violence,data=dwvs)
print(lda.out3)
```

Call:

```
lda(country ~ F_rights + F_steal + F_crime + F_religion + F_realizeself +
      F_dogood + F_violence, data = dwvs)
```

Prior probabilities of groups:

```
Netherlands      Nigeria Philippines
  0.3209373      0.4019358      0.2771268
```

Group means:

```
      F_rights      F_steal      F_crime F_religion F_realizeself
Netherlands  0.9327125 -0.4751187 -0.55844404 -1.1598095      -0.8475502
Nigeria      -0.6483553 -0.1722352  0.08090767  0.6023959      0.7577233
Philippines  -0.1398099  0.8000337  0.52938161  0.4694661      -0.1174394
      F_dogood F_violence
Netherlands -0.7798327 -0.5250967
Nigeria      0.2989281  0.1782593
Philippines  0.4695595  0.3495667
```

Coefficients of linear discriminants:

```
      LD1      LD2
F_rights  -0.8401075  0.01027642
F_steal    0.3423645  0.91386283
F_crime    0.2143323  0.33598819
F_religion  0.8731477 -0.07647045
F_realizeself 0.6587618 -0.90847523
F_dogood    0.1503357  0.59800284
F_violence  0.3752515 -0.15983345
```

Proportion of trace:

```
      LD1      LD2
0.8714 0.1286
```

```
pred.train3 <- predict(lda.out3,dwvs, prior=c(1,1,1)/3)
tab3 <- table(dwvs$country,pred.train3$class)
print(tab3)
```

```
      Netherlands Nigeria Philippines
Netherlands      1145      39      76
Nigeria           10     1327     241
Philippines        17      220     851
```

```
#training hit rate
sum(diag(tab3))/sum(tab3)
```

```
[1] 0.8464086
```

```
#classify test observations using LDA
```

```
pred.loocv4<-lda(country~F_rights+F_steal+F_crime+F_religion+F_realizeself+F_dogood+F_violence,data=dwvs)
tab4<-table(dwvs$country,pred.loocv4$class)
print(tab4)
```

	Netherlands	Nigeria	Philippines
Netherlands	1145	39	76
Nigeria	11	1326	241
Philippines	17	224	847

```
#LOOCV hit rate
```

```
sum(diag(tab4))/sum(tab4)
```

```
[1] 0.845135
```

We can see that in that case, the difference between the performance for training error and LOOCV error is really small, so there is no evidence for overfitting.

## Quadratic discriminant analysis

The second method that we have applied is Quadratic discriminant analysis. It should perform better considering the difference in the covariance matrix for the different groups. QDA even if has a lower bias with a different covariance matrix, has a larger variance, and as in our case with a small dataset can be problematic.

Even in this case, we have applied the method of Fisher correcting for prior probabilities.

```
qda.out7<-qda(country~F_rights+F_steal+F_crime+F_religion+F_realizeself+F_dogood +F_violence,data=dwvs)
pred.train7<-predict(qda.out7,dwvs, prior=c(1,1,1)/3)
```

```
tab7<-table(dwvs$country,pred.train7$class)
print(tab7)
```

	Netherlands	Nigeria	Philippines
Netherlands	1210	21	29
Nigeria	40	1319	219
Philippines	41	219	828

```
#training hit rate
```

```
sum(diag(tab7))/sum(tab7)
```

```
[1] 0.8550688
```

```
#classify test observations
```

```
#use equal population sizes classes
```

```
pred.test8 <- qda(country~
                  F_rights + F_steal + F_crime + F_religion + F_realizeself + F_dogood + F_violence,
                  data=dwvs,prior=c(1,1,1)/3,CV=TRUE)
```

```
tab8<-table(dwvs$country,pred.test8$class)
```

```
#LOOCV hit rate
```

```
sum(diag(tab8))/sum(tab8)
```

```
[1] 0.8525217
```

Also in that case there is no evidence of overfitting. We can see from the results that the QDA performs better than the LDA but with not a significant improvement.

## K-nearest Neighbors

The third model that we had analyzed is the K-nearest Neighbors. We have computed the model using all the 3926 observations and to choose which is the correct number of parameters  $k$  to use we have compared the training error with the Leave one out cross-validation error.

```
#str(dwvs)
table(dwvs$country)
```

Netherlands	Nigeria	Philippines
1260	1578	1088

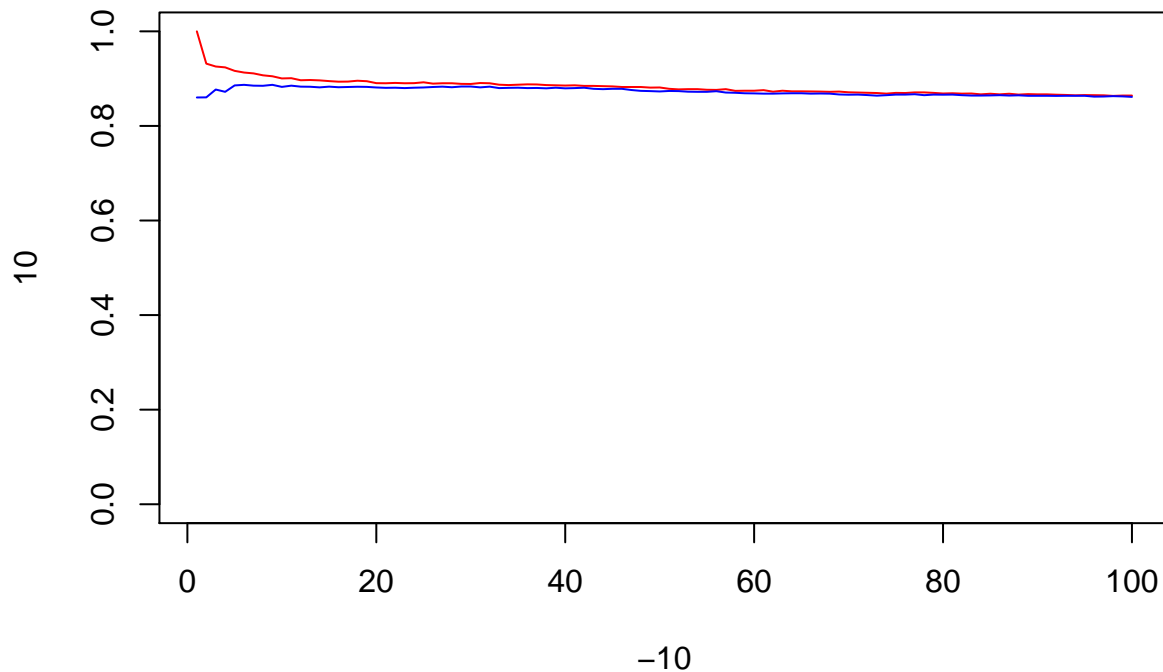
```
set.seed(9850) # -> random number generator
gp<-runif(nrow(dwvs))
dwvs2<-dwvs[order(gp),]
#str(dwvs)
#str(dwvs2)
#head(dwvs)
#head(dwvs2)

hitratknn<-function(observed,predicted)
{tab<-table(observed,predicted)
hitratknn<-sum(diag(tab))/sum(tab)
return(hitratknn)
}

knnmax<-100
err<-matrix(rep(0,knnmax*2), nrow=knnmax)
for(j in 1:knnmax) {
predknn.train<-knn(dwvs2[,2:8], dwvs2[,2:8], dwvs2$country, k=j)
err[j,1]<-hitratknn(dwvs2$country,predknn.train)
}

for(j in 1:knnmax) {
predknn.train<-knn.cv(dwvs2[,2:8], dwvs2$country, k=j)
err[j,2]<-hitratknn(dwvs2$country,predknn.train)
}

plot(-10, 10,xlim=c(1,knnmax),ylim=c(0,1))
lines(c(1:knnmax),err[,1],col="red") # -> training error
lines(c(1:knnmax),err[,2],col="blue")
```



We can see that with  $K = 1$  the model is flexible and we have by definition training hit rate (*red line*) of 1 but the *LOOCV* hit rate (*blue line*) it's higher, while with model less flexible as with  $k = 98$  the two errors are similar. Since as increasing the parameter  $K$  both the errors increase, probably the model that better describes the dataset is with  $K = 30$  or  $K = 66$ .

**HERE I HAVE TO PUT THE TABLE**

### High Dimensional Discriminant Analysis

The fourth method that we have used to discriminate between different groups is the *HDDA* method. This method could be useful when the number of parameters is high compared to the number of data.

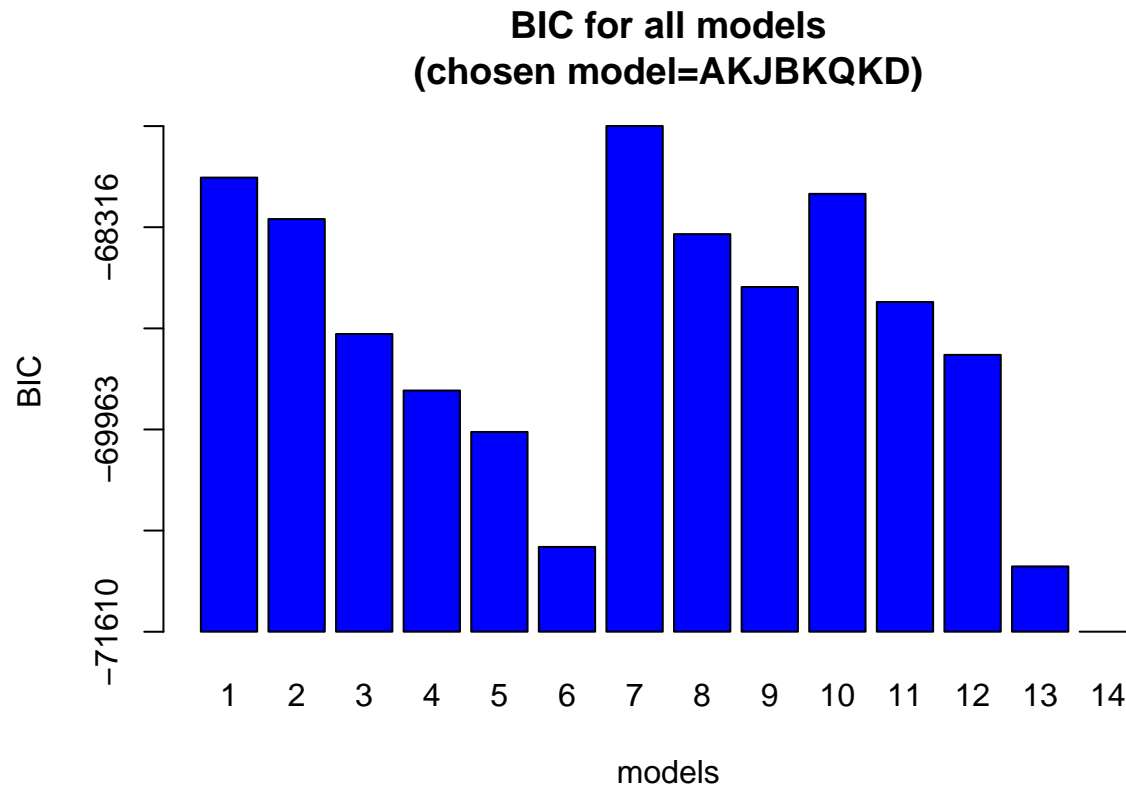
```
w <- dwvs[, -1]
cls <- dwvs[, 1]
#HDDA on the learning dataset:
hdda.out11 <- hdda(w, cls, scaling=TRUE, model="all", d="BIC", graph=TRUE, show=TRUE)
```

# :	Model	BIC
1 :	AKJBKQKDK	-67912.32
2 :	AKBKQKDK	-68249.76
3 :	ABKQKDK	-69185.72
4 :	AKJBKQKDK	-69646.01
5 :	AKBKQKDK	-69983.46
6 :	ABKQKDK	-70919.41
7 :	AKJBKQKD	-67492.38
8 :	AKBKQKD	-68372.73



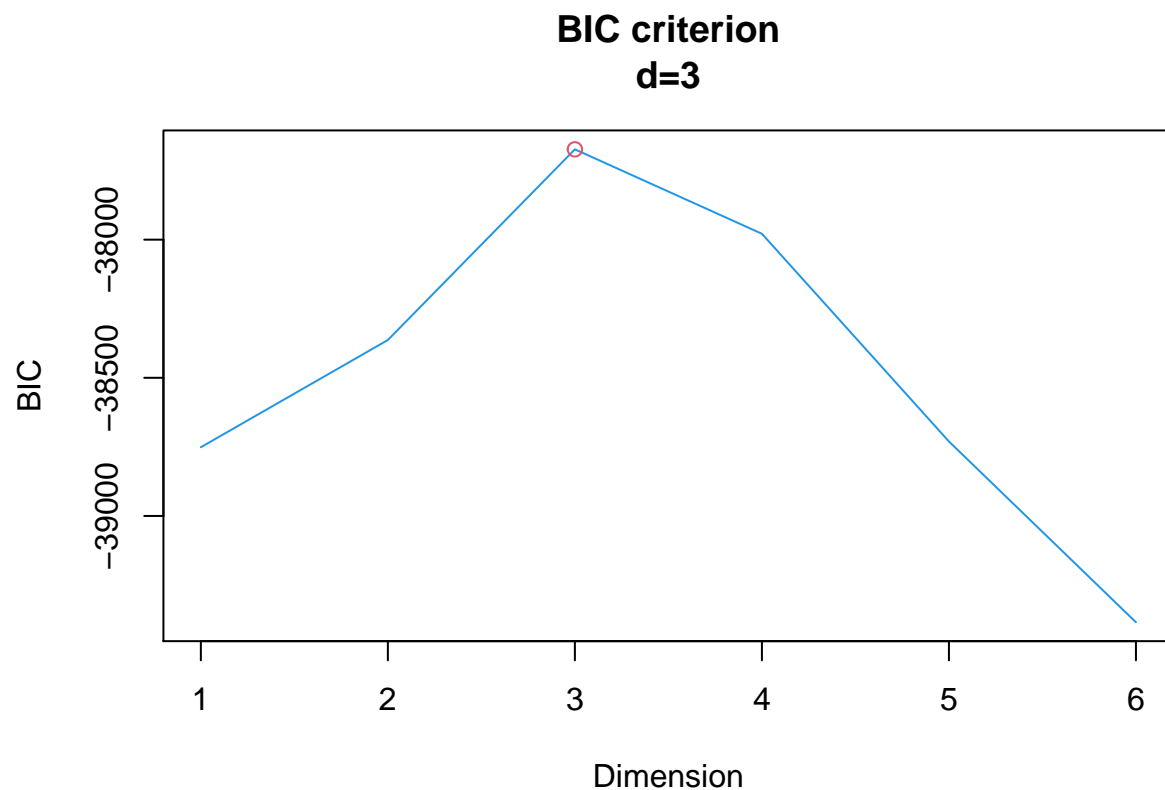
9 :	ABKQKD	-68803.13
10 :	AKJBQKD	-68044.89
11 :	AKBQKD	-68925.24
12 :	ABQKD	-69355.63
13 :	AJBQD	-71078.02
14 :	ABQD	-71609.34

SELECTED: Model AKJBKQKD, BIC=-67492.38.



The model used from the HDDA analysis applying the BIC criterion is model 7 ( $A_{kj}K_jB_kQ_kd$ ). The decision following the *BIC* criteria is to choose the model with the lowest value, in that case, the reference system is negative, so the lowest value is for model 7.

```
plot(hdda.out11,method="BIC")
```



The dimension choose for the model is 3. The model chosen by the *BIC* criteria has the same number of principal components for all the three different classes.

```
pred.train11<-predict(hdda.out11,w,cls)
```

Correct classification rate: 0.8530311.

	Initial class		
Predicted class	Netherlands	Nigeria	Philippines
Netherlands	1196	20	40
Nigeria	26	1356	251
Philippines	38	202	797

```
tab11<-table(dwvs$country,pred.train11$class)
print(tab11)
```

	Netherlands	Nigeria	Philippines
Netherlands	1196	26	38
Nigeria	20	1356	202
Philippines	40	251	797

```
#training hit rate
sum(diag(tab11))/sum(tab11)
```

```
[1] 0.8530311
```

```
pred.loocv12 <- hdda(w, cls, scaling=TRUE, d="BIC", LOO=TRUE)
tab12<-table(cls,pred.loocv12$class)
print(tab12)
```

```
cls      Netherlands Nigeria Philippines
Netherlands      1197      26          37
Nigeria           22     1378         178
Philippines       44      285         759
```

```
#LOOCV hit rate
sum(diag(tab12))/sum(tab12)
```

```
[1] 0.8492104
```

Also with the *HDDA* model, there is rather small evidence of overfitting, but the *HDDA* model does not perform better than the other models.

### Error comparison for the different models

We have computed for all 4 models the hit rate, for the comparison in the table we will present the training and LOOCV errors computing  $1 - \text{hit rate}$ :

#### *HERE I HAVE TO PUT THE 2nd TABLE*

In all the present models there is little evidence of overfitting, the two errors computed are in all the cases similar. The K-nearest Neighbors is a good model to compare the others and we can see that even if it performs better it has not a huge difference. The model that performs better between the other 3 is the Quadratic discriminant analysis, it is the most complex one with the highest number of parameters used.

Confronting the results, we can say that even if there is a difference between the models, no one of the computed ones has outstanding results.

Table of *QDA LOOCV* rate:

#### *HERE I HAVE TO PUT THE 3rd TABLE*

As we were expecting in the analysis of the canonical discriminant analysis, the model has a high ability to differentiate between Netherlands and the two other countries, when it has a high error rate discriminating between Nigeria and the Philippines.

### Multinomial logistic regression model

```
m1<- multinom(country~F_rights+F_steal+F_crime+F_religion+F_realizeself+F_dogood +F_violence, family=multinom)

# weights:  27 (16 variable)
initial  value 4313.151845
iter   10 value 1376.724330
iter   20 value 1352.584896
final   value 1346.617148
converged
```

```
summary(m1)
```

Call:

```
multinom(formula = country ~ F_rights + F_steal + F_crime + F_religion +  
  F_realizeself + F_dogood + F_violence, data = dwvs, family = multinomial,  
  maxit = 3926, hess = TRUE)
```

Coefficients:

	(Intercept)	F_rights	F_steal	F_crime	F_religion	F_realizeself
Nigeria	0.6472240	-2.122889	0.5537755	0.5976742	2.887712	2.8922393
Philippines	0.9959826	-1.466848	1.5556448	1.0662700	1.932117	0.9680894
	F_dogood	F_violence				
Nigeria	-0.01110756	1.2844737				
Philippines	1.16765772	0.7560728				

Std. Errors:

	(Intercept)	F_rights	F_steal	F_crime	F_religion	F_realizeself
Nigeria	0.1612100	0.1642741	0.1735127	0.1334749	0.2143403	0.1695936
Philippines	0.1510987	0.1475679	0.1685630	0.1296852	0.1866007	0.1556415
	F_dogood	F_violence				
Nigeria	0.1218099	0.1534901				
Philippines	0.1197516	0.1470007				

Residual Deviance: 2693.234

AIC: 2725.234

Coefficients: (Intercept) F\_rights F\_steal F\_crime F\_religion F\_realizeself F\_dogood F\_violence Nigeria  
0.6472240 -2.122889 0.5537755 0.5976742 2.887712 2.8922393 -0.01110756 1.2844737 Philippines 0.9959826  
-1.466848 1.5556448 1.0662700 1.932117 0.9680894 1.16765772 0.7560728

Std. Errors: (Intercept) F\_rights F\_steal F\_crime F\_religion F\_realizeself F\_dogood F\_violence Nigeria  
0.1612100 0.1642741 0.1735127 0.1334749 0.2143403 0.1695936 0.1218099 0.1534901 Philippines 0.1510987  
0.1475679 0.1685630 0.1296852 0.1866007 0.1556415 0.1197516 0.1470007 4 12 3.23 4.42 13 0.091 8.53

We can see that there are 2 different regression model estimates: the first one compares the probability of Nigeria to the probability of the Netherlands, the second model compares the probability of the Philippines to the probability of the Netherlands. All the parameters are significant except  $F\_dogood$  for Nigeria, which's not significantly different from 0. The sign of the parameters is the same for all the parameters in both the regressions, except for  $F\_dogood$  where the Nigeria coefficient is not significant. This could be explained because have we analyzed previously Netherlands strongly differs from the other two countries, while Nigeria and the Philippines have not a clear separation.

```
#### compute hitrate training data####
```

```
train.pred<-predict(m1,newdata=dwvs)  
tab<-table(dwvs$country, train.pred)  
sum(diag(tab))/sum(tab)
```

```
[1] 0.8571065
```

Error rate: 0.1428935

```
#####compute LOOCV
nobs<- 3926
hit<-rep(0,nobs)
for (i in 1:nobs){
train<-c(1:nobs)

mod<- multinom(country~F_rights+F_steal+F_crime+F_religion+F_realizeself+F_dogood +F_violence,data=dwvs
pred<- predict(mod, newdata=dwvs[i,])
hit[i]<-ifelse(pred==dwvs$country[i],1,0)}
```

```
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778027
iter 20 value 1352.524311
final value 1346.617116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733061
iter 20 value 1352.643585
final value 1346.616548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731915
iter 20 value 1352.654855
final value 1346.616181
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755038
iter 20 value 1352.585793
final value 1346.616208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763535
iter 20 value 1352.573464
final value 1346.617000
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755500
iter 20 value 1352.603018
final value 1346.617108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753121
iter 20 value 1352.520386
final value 1346.616277
converged
# weights: 27 (16 variable)
```

```

initial value 4312.053233
iter 10 value 1376.720410
iter 20 value 1352.490462
final value 1346.607928
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749143
iter 20 value 1352.602187
final value 1346.616800
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722256
iter 20 value 1352.610488
final value 1346.613547
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752543
iter 20 value 1352.538359
final value 1346.617119
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749553
iter 20 value 1352.556060
final value 1346.615772
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754235
iter 20 value 1352.551755
final value 1346.616675
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725200
iter 20 value 1352.622872
final value 1346.612871
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.054711
iter 20 value 1348.346302
final value 1343.053483
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576793
iter 20 value 1352.698763
final value 1346.512288
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.759622
iter 20 value 1352.591577
final value 1346.616621
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741322
iter 20 value 1352.541734
final value 1346.617032
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671376
iter 20 value 1352.655022
final value 1346.579281
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772296
iter 20 value 1352.487844
final value 1346.616575
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738260
iter 20 value 1352.529057
final value 1346.614182
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688500
iter 20 value 1352.471725
final value 1346.599139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772762
iter 20 value 1352.500856
final value 1346.616858
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768217
iter 20 value 1352.509208
final value 1346.615392
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747747
iter 20 value 1352.544335
final value 1346.617003
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.761062
iter 20 value 1352.585607
final value 1346.617095
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725674
iter 20 value 1352.486510
final value 1346.608012
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741100
iter 20 value 1352.569200
final value 1346.617078
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761213
iter 20 value 1352.535944
final value 1346.617123
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725909
iter 20 value 1352.547048
final value 1346.615459
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761354
iter 20 value 1352.559879
final value 1346.616976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762162
iter 20 value 1352.485908
final value 1346.614369
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738774
iter 20 value 1352.601550
final value 1346.613557
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761837
iter 20 value 1352.552325
final value 1346.614129
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.741638
iter 20 value 1352.587006
final value 1346.613827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775667
iter 20 value 1352.510583
final value 1346.617073
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742650
iter 20 value 1352.542397
final value 1346.615306
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680053
iter 20 value 1352.530407
final value 1346.593466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709845
iter 20 value 1352.528694
final value 1346.601240
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756102
iter 20 value 1352.589436
final value 1346.617021
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740242
iter 20 value 1352.539265
final value 1346.616160
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.334501
iter 20 value 1352.988175
final value 1346.243443
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710457
iter 20 value 1352.464465
final value 1346.600098
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.701567
iter 20 value 1351.135591
final value 1345.574005
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751023
iter 20 value 1352.554319
final value 1346.616757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682631
iter 20 value 1352.507779
final value 1346.600004
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721943
iter 20 value 1352.545254
final value 1346.613886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750651
iter 20 value 1352.607414
final value 1346.611955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736188
iter 20 value 1352.570168
final value 1346.616011
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676619
iter 20 value 1352.568971
final value 1346.592763
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678164
iter 20 value 1352.515770
final value 1346.602336
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755504
iter 20 value 1352.539929
final value 1346.617038
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.730093
iter 20 value 1352.580066
final value 1346.614817
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.254540
iter 20 value 1349.956090
final value 1344.803260
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742750
iter 20 value 1352.560050
final value 1346.615535
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676192
iter 20 value 1352.541493
final value 1346.595190
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.476801
iter 20 value 1352.083209
final value 1346.405221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754428
iter 20 value 1352.528820
final value 1346.616589
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762409
iter 20 value 1352.533717
final value 1346.616954
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771312
iter 20 value 1352.532227
final value 1346.617095
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730647
iter 20 value 1352.549400
final value 1346.616644
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.672904
iter 20 value 1352.666310
final value 1346.589110
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761425
iter 20 value 1352.506250
final value 1346.617016
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.781070
iter 20 value 1352.515960
final value 1346.617047
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.537873
iter 20 value 1352.570459
final value 1346.492761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748779
iter 20 value 1352.564127
final value 1346.615410
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719267
iter 20 value 1352.580416
final value 1346.614681
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750730
iter 20 value 1352.462015
final value 1346.611988
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749478
iter 20 value 1352.577563
final value 1346.616881
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764460
iter 20 value 1352.524673
final value 1346.616819
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.960326
iter 20 value 1351.444440
final value 1345.919050
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758453
iter 20 value 1352.526864
final value 1346.616522
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703911
iter 20 value 1352.516862
final value 1346.605023
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.626040
iter 20 value 1352.343685
final value 1346.577622
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1370.712214
iter 20 value 1346.344968
final value 1339.979309
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772641
iter 20 value 1352.512274
final value 1346.616842
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763325
iter 20 value 1352.525885
final value 1346.616805
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768849
iter 20 value 1352.515302
final value 1346.616890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764404
iter 20 value 1352.531309
final value 1346.617095
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.763853
iter 20 value 1352.549270
final value 1346.616982
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.626309
iter 20 value 1352.355879
final value 1346.546047
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748038
iter 20 value 1352.594096
final value 1346.617115
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768308
iter 20 value 1352.523557
final value 1346.616929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757391
iter 20 value 1352.565618
final value 1346.616293
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750590
iter 20 value 1352.540308
final value 1346.616138
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.826002
iter 20 value 1351.888069
final value 1345.612908
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768493
iter 20 value 1352.507923
final value 1346.616639
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.369049
iter 20 value 1352.034352
final value 1346.382096
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.725876
iter 20 value 1352.527860
final value 1346.613103
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716222
iter 20 value 1352.529827
final value 1346.610348
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.637348
iter 20 value 1350.219225
final value 1344.129402
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.444799
iter 20 value 1352.249669
final value 1346.391285
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770360
iter 20 value 1352.493071
final value 1346.617055
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776202
iter 20 value 1352.513844
final value 1346.616405
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739510
iter 20 value 1352.511511
final value 1346.614950
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763017
iter 20 value 1352.577208
final value 1346.616206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765320
iter 20 value 1352.522029
final value 1346.616836
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.768609
iter 20 value 1352.537548
final value 1346.616968
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731313
iter 20 value 1352.639833
final value 1346.610408
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720067
iter 20 value 1352.574311
final value 1346.612544
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741315
iter 20 value 1352.522951
final value 1346.614441
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744476
iter 20 value 1352.522121
final value 1346.616632
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.779903
iter 20 value 1352.501173
final value 1346.616788
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762761
iter 20 value 1352.535530
final value 1346.617038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769013
iter 20 value 1352.511065
final value 1346.615693
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700186
iter 20 value 1352.458816
final value 1346.596060
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.755541
iter 20 value 1352.575295
final value 1346.616626
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737113
iter 20 value 1352.492889
final value 1346.614338
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.214385
iter 20 value 1352.123977
final value 1346.210327
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755508
iter 20 value 1352.534454
final value 1346.616715
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750897
iter 20 value 1352.550922
final value 1346.616349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360818
iter 20 value 1352.563655
final value 1346.365617
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.339525
iter 20 value 1352.361397
final value 1346.313658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778139
iter 20 value 1352.481618
final value 1346.616595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745651
iter 20 value 1352.552208
final value 1346.616249
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.757756
iter 20 value 1352.573754
final value 1346.616503
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709431
iter 20 value 1352.591472
final value 1346.605604
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757977
iter 20 value 1352.527263
final value 1346.617057
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761691
iter 20 value 1352.542098
final value 1346.616950
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690820
iter 20 value 1352.506409
final value 1346.604437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.960647
iter 20 value 1351.594337
final value 1345.999289
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774245
iter 20 value 1352.507875
final value 1346.616959
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747695
iter 20 value 1352.536770
final value 1346.616637
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771456
iter 20 value 1352.524178
final value 1346.617101
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.763302
iter 20 value 1352.442886
final value 1346.609980
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721638
iter 20 value 1352.601386
final value 1346.613064
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752822
iter 20 value 1352.554240
final value 1346.617098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776919
iter 20 value 1352.516121
final value 1346.615636
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753099
iter 20 value 1352.511310
final value 1346.614913
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766178
iter 20 value 1352.540309
final value 1346.617085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747401
iter 20 value 1352.613157
final value 1346.616145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716858
iter 20 value 1352.549282
final value 1346.612497
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727513
iter 20 value 1352.519484
final value 1346.613592
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.742652
iter 20 value 1352.530932
final value 1346.616794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761163
iter 20 value 1352.538821
final value 1346.617043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739487
iter 20 value 1352.588511
final value 1346.614611
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658105
iter 20 value 1352.036647
final value 1346.591461
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667158
iter 20 value 1352.807504
final value 1346.587864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752736
iter 20 value 1352.572440
final value 1346.616530
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767370
iter 20 value 1352.532681
final value 1346.616629
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744633
iter 20 value 1352.607101
final value 1346.616008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778382
iter 20 value 1352.444822
final value 1346.614447
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.700693
iter 20 value 1352.521708
final value 1346.604133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.187263
iter 20 value 1350.194089
final value 1343.712890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664443
iter 20 value 1352.106580
final value 1346.573490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737044
iter 20 value 1352.559925
final value 1346.616807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719200
iter 20 value 1352.237538
final value 1346.585438
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753432
iter 20 value 1352.520282
final value 1346.617100
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728693
iter 20 value 1352.563260
final value 1346.613430
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747350
iter 20 value 1352.591229
final value 1346.616966
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700842
iter 20 value 1352.528887
final value 1346.602009
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.753899
iter 20 value 1352.527564
final value 1346.617008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752510
iter 20 value 1352.588369
final value 1346.616783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755658
iter 20 value 1352.578436
final value 1346.617022
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.503923
iter 20 value 1351.158240
final value 1345.157794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734914
iter 20 value 1352.593684
final value 1346.616780
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665300
iter 20 value 1352.611417
final value 1346.582833
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754796
iter 20 value 1352.561891
final value 1346.616674
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556372
iter 20 value 1352.504334
final value 1346.500547
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751815
iter 20 value 1352.551906
final value 1346.617086
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.731662
iter 20 value 1352.596126
final value 1346.614794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741828
iter 20 value 1352.516381
final value 1346.616332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.478151
iter 20 value 1352.181549
final value 1346.417456
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774476
iter 20 value 1352.530549
final value 1346.615906
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743328
iter 20 value 1352.555708
final value 1346.613092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.470332
iter 20 value 1352.572055
final value 1346.418758
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762558
iter 20 value 1352.528622
final value 1346.617008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758374
iter 20 value 1352.532090
final value 1346.616889
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752868
iter 20 value 1352.521467
final value 1346.617042
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.741870
iter 20 value 1352.511489
final value 1346.616981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758967
iter 20 value 1352.541791
final value 1346.617085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768518
iter 20 value 1352.540790
final value 1346.617119
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.529361
iter 20 value 1352.304105
final value 1346.479466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.323365
iter 20 value 1353.173212
final value 1346.240761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753255
iter 20 value 1352.515143
final value 1346.616998
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768683
iter 20 value 1352.539763
final value 1346.615750
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762704
iter 20 value 1352.568120
final value 1346.617084
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719247
iter 20 value 1352.571479
final value 1346.615303
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.727592
iter 20 value 1352.559879
final value 1346.613925
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.203429
iter 20 value 1350.911175
final value 1344.911325
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754923
iter 20 value 1352.523994
final value 1346.617069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774828
iter 20 value 1352.515717
final value 1346.617038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722284
iter 20 value 1352.535655
final value 1346.616845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754134
iter 20 value 1352.580086
final value 1346.617048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774354
iter 20 value 1352.522057
final value 1346.616108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729962
iter 20 value 1352.511651
final value 1346.612405
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.415917
iter 20 value 1352.615128
final value 1346.363615
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.726290
iter 20 value 1352.538801
final value 1346.614343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752107
iter 20 value 1352.544935
final value 1346.613698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711410
iter 20 value 1352.494362
final value 1346.604324
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715507
iter 20 value 1352.527645
final value 1346.613901
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761014
iter 20 value 1352.538813
final value 1346.617001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720542
iter 20 value 1352.625756
final value 1346.602835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711464
iter 20 value 1352.504436
final value 1346.610377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742635
iter 20 value 1352.570406
final value 1346.614398
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.889977
iter 20 value 1351.215712
final value 1344.606358
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.930533
iter 20 value 1351.664740
final value 1345.925541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728994
iter 20 value 1352.567605
final value 1346.615896
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.532654
iter 20 value 1352.001757
final value 1345.347203
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.854399
iter 20 value 1351.238428
final value 1345.591421
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755219
iter 20 value 1352.539478
final value 1346.617061
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757716
iter 20 value 1352.536954
final value 1346.615599
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702300
iter 20 value 1352.540663
final value 1346.603312
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741828
iter 20 value 1352.569342
final value 1346.613673
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610249
iter 20 value 1352.405184
final value 1346.558257
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.748967
iter 20 value 1352.519699
final value 1346.614471
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735103
iter 20 value 1352.621076
final value 1346.615196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771949
iter 20 value 1352.527043
final value 1346.617095
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766816
iter 20 value 1352.520203
final value 1346.617099
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772566
iter 20 value 1352.539538
final value 1346.617129
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761273
iter 20 value 1352.571395
final value 1346.616843
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707860
iter 20 value 1352.525306
final value 1346.611210
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.388109
iter 20 value 1351.943653
final value 1346.318270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742196
iter 20 value 1352.568201
final value 1346.616963
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.736272
iter 20 value 1352.474863
final value 1346.616620
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687228
iter 20 value 1352.534346
final value 1346.604950
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.306350
iter 20 value 1352.010138
final value 1346.282317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750012
iter 20 value 1352.530914
final value 1346.615894
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734640
iter 20 value 1352.407341
final value 1346.600574
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761330
iter 20 value 1352.556461
final value 1346.617060
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.099599
iter 20 value 1351.605495
final value 1346.115386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742582
iter 20 value 1352.518366
final value 1346.615320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753519
iter 20 value 1352.550235
final value 1346.616061
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.728448
iter 20 value 1352.511051
final value 1346.614706
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.237863
iter 20 value 1351.929578
final value 1346.201365
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759204
iter 20 value 1352.562805
final value 1346.616981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.555572
iter 20 value 1352.459480
final value 1346.498939
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.355907
iter 20 value 1351.985559
final value 1346.349999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753317
iter 20 value 1352.540012
final value 1346.616318
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610736
iter 20 value 1352.381116
final value 1346.530281
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776378
iter 20 value 1352.517102
final value 1346.617079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758664
iter 20 value 1352.520653
final value 1346.616845
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.770029
iter 20 value 1352.538660
final value 1346.617069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.990909
iter 20 value 1352.011011
final value 1345.993285
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758410
iter 20 value 1352.523243
final value 1346.617096
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723960
iter 20 value 1352.560016
final value 1346.611244
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741942
iter 20 value 1352.551989
final value 1346.616269
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735015
iter 20 value 1352.564908
final value 1346.616422
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761950
iter 20 value 1352.509456
final value 1346.615711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754972
iter 20 value 1352.586813
final value 1346.616809
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733772
iter 20 value 1352.492564
final value 1346.614074
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.751844
iter 20 value 1352.539152
final value 1346.615082
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759306
iter 20 value 1352.528891
final value 1346.616915
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731001
iter 20 value 1352.493521
final value 1346.609769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668719
iter 20 value 1352.719707
final value 1346.587394
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724221
iter 20 value 1352.526249
final value 1346.611905
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759247
iter 20 value 1352.530475
final value 1346.612175
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735051
iter 20 value 1352.525528
final value 1346.613270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751194
iter 20 value 1352.515178
final value 1346.616974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716436
iter 20 value 1352.539451
final value 1346.606486
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.755980
iter 20 value 1352.543479
final value 1346.616989
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721993
iter 20 value 1352.519003
final value 1346.609674
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765076
iter 20 value 1352.548028
final value 1346.616569
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525545
iter 20 value 1352.300096
final value 1346.455348
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767424
iter 20 value 1352.524320
final value 1346.617083
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411491
iter 20 value 1352.461196
final value 1346.372867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756515
iter 20 value 1352.569297
final value 1346.617125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740514
iter 20 value 1352.510591
final value 1346.616822
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745043
iter 20 value 1352.571335
final value 1346.616994
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.761580
iter 20 value 1352.574434
final value 1346.616916
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773283
iter 20 value 1352.531973
final value 1346.617041
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760892
iter 20 value 1352.552478
final value 1346.617088
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743695
iter 20 value 1352.539503
final value 1346.616952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.289224
iter 20 value 1351.841603
final value 1345.057002
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771715
iter 20 value 1352.548783
final value 1346.616927
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757372
iter 20 value 1352.515938
final value 1346.616886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765324
iter 20 value 1352.539083
final value 1346.616781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765990
iter 20 value 1352.524010
final value 1346.617127
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.772200
iter 20 value 1352.515435
final value 1346.617019
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715093
iter 20 value 1352.551399
final value 1346.610492
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734476
iter 20 value 1352.481477
final value 1346.605946
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712986
iter 20 value 1352.526226
final value 1346.605659
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759461
iter 20 value 1352.521846
final value 1346.616845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.382301
iter 20 value 1352.455456
final value 1346.320760
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746117
iter 20 value 1352.527490
final value 1346.615670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757299
iter 20 value 1352.550987
final value 1346.614677
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755232
iter 20 value 1352.563392
final value 1346.617010
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.767865
iter 20 value 1352.513881
final value 1346.617073
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735654
iter 20 value 1352.544808
final value 1346.615939
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767555
iter 20 value 1352.523689
final value 1346.616205
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525399
iter 20 value 1352.256670
final value 1346.494320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737435
iter 20 value 1352.617617
final value 1346.615628
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746120
iter 20 value 1352.571596
final value 1346.617079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764772
iter 20 value 1352.528448
final value 1346.617065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.539119
iter 20 value 1354.007258
final value 1346.507643
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688110
iter 20 value 1352.664581
final value 1346.596481
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.641929
iter 20 value 1352.461360
final value 1346.569486
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762661
iter 20 value 1352.475274
final value 1346.616669
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635311
iter 20 value 1352.035533
final value 1346.511128
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753811
iter 20 value 1352.582140
final value 1346.616848
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595976
iter 20 value 1352.384185
final value 1346.517852
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.363940
iter 20 value 1352.646534
final value 1346.346971
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775617
iter 20 value 1352.526764
final value 1346.616952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756811
iter 20 value 1352.554275
final value 1346.616972
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669035
iter 20 value 1352.500045
final value 1346.593425
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.046168
iter 20 value 1351.974368
final value 1345.961615
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748452
iter 20 value 1352.596051
final value 1346.617038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743254
iter 20 value 1352.563527
final value 1346.616506
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774123
iter 20 value 1352.514169
final value 1346.616489
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764626
iter 20 value 1352.510737
final value 1346.616739
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757491
iter 20 value 1352.512414
final value 1346.616965
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759335
iter 20 value 1352.554897
final value 1346.616965
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747517
iter 20 value 1352.561727
final value 1346.616695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739170
iter 20 value 1352.535015
final value 1346.613867
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.770975
iter 20 value 1352.537338
final value 1346.616205
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757409
iter 20 value 1352.527695
final value 1346.617109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760929
iter 20 value 1352.555309
final value 1346.617058
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732094
iter 20 value 1352.543723
final value 1346.614735
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1370.843697
iter 20 value 1345.952798
final value 1338.837684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765515
iter 20 value 1352.525297
final value 1346.617128
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743336
iter 20 value 1352.564382
final value 1346.615613
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758938
iter 20 value 1352.571196
final value 1346.616499
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765616
iter 20 value 1352.518225
final value 1346.616324
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.779172
iter 20 value 1352.514689
final value 1346.616996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757071
iter 20 value 1352.552847
final value 1346.617033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727001
iter 20 value 1352.614200
final value 1346.608921
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763881
iter 20 value 1352.539513
final value 1346.617123
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752104
iter 20 value 1352.537841
final value 1346.615471
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691636
iter 20 value 1352.460782
final value 1346.599445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717001
iter 20 value 1352.550159
final value 1346.612256
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746061
iter 20 value 1352.521171
final value 1346.615990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.557609
iter 20 value 1351.988937
final value 1346.493133
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.741176
iter 20 value 1353.078861
final value 1346.610653
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741967
iter 20 value 1352.581327
final value 1346.610463
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658223
iter 20 value 1352.586975
final value 1346.571026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753402
iter 20 value 1352.567052
final value 1346.614349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758069
iter 20 value 1352.545815
final value 1346.616026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755639
iter 20 value 1352.561082
final value 1346.617125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735510
iter 20 value 1352.484256
final value 1346.615318
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741077
iter 20 value 1352.491930
final value 1346.607751
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775147
iter 20 value 1352.521389
final value 1346.617038
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.730195
iter 20 value 1352.590387
final value 1346.612604
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745170
iter 20 value 1352.554484
final value 1346.616887
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729772
iter 20 value 1352.534450
final value 1346.616868
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735081
iter 20 value 1352.568100
final value 1346.616643
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703741
iter 20 value 1352.507729
final value 1346.604154
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.496249
iter 20 value 1352.533374
final value 1346.478718
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749220
iter 20 value 1352.570579
final value 1346.616216
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.092532
iter 20 value 1351.490162
final value 1346.059933
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.777024
iter 20 value 1352.528248
final value 1346.617061
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.757715
iter 20 value 1352.536482
final value 1346.617089
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719783
iter 20 value 1352.430064
final value 1346.616818
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774675
iter 20 value 1352.511931
final value 1346.616662
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.670576
iter 20 value 1352.657410
final value 1346.590722
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757841
iter 20 value 1352.516558
final value 1346.617070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766817
iter 20 value 1352.538117
final value 1346.617061
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759783
iter 20 value 1352.519605
final value 1346.617035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754385
iter 20 value 1352.561638
final value 1346.617051
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698781
iter 20 value 1352.487971
final value 1346.602821
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.158074
iter 20 value 1352.494889
final value 1346.019113
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768135
iter 20 value 1352.543838
final value 1346.617035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752666
iter 20 value 1352.515809
final value 1346.616391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736227
iter 20 value 1352.618372
final value 1346.616707
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716491
iter 20 value 1352.590098
final value 1346.614990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.084090
iter 20 value 1346.718615
final value 1340.643672
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759411
iter 20 value 1352.556045
final value 1346.616973
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747902
iter 20 value 1352.523364
final value 1346.616863
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.681358
iter 20 value 1350.769066
final value 1345.451463
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.734682
iter 20 value 1352.552492
final value 1346.615818
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732621
iter 20 value 1352.615295
final value 1346.612578
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753275
iter 20 value 1352.549725
final value 1346.616728
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712000
iter 20 value 1352.594846
final value 1346.603846
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741508
iter 20 value 1352.522278
final value 1346.613548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754740
iter 20 value 1352.543118
final value 1346.617049
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700291
iter 20 value 1352.524862
final value 1346.598710
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.545830
iter 20 value 1352.491958
final value 1346.492071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757425
iter 20 value 1352.544224
final value 1346.617116
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.746673
iter 20 value 1352.536243
final value 1346.616860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719234
iter 20 value 1352.533101
final value 1346.616779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747554
iter 20 value 1352.598615
final value 1346.613149
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732749
iter 20 value 1352.605932
final value 1346.611288
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691044
iter 20 value 1352.520110
final value 1346.599641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.781708
iter 20 value 1352.488941
final value 1346.616667
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735980
iter 20 value 1352.558621
final value 1346.606144
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764267
iter 20 value 1352.583614
final value 1346.616508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.422047
iter 20 value 1352.187931
final value 1346.443579
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.577539
iter 20 value 1352.465448
final value 1346.516028
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725425
iter 20 value 1352.600384
final value 1346.614401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718522
iter 20 value 1352.537271
final value 1346.610182
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750333
iter 20 value 1352.550076
final value 1346.617030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742474
iter 20 value 1352.541200
final value 1346.616850
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773381
iter 20 value 1352.539311
final value 1346.616955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.270380
iter 20 value 1352.152344
final value 1346.171678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.566345
iter 20 value 1352.542955
final value 1346.502359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734041
iter 20 value 1352.565542
final value 1346.612715
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.783719
iter 20 value 1352.502668
final value 1346.616208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737383
iter 20 value 1352.518541
final value 1346.614357
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730090
iter 20 value 1352.583985
final value 1346.613892
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693718
iter 20 value 1352.532172
final value 1346.592218
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.206285
iter 20 value 1351.891002
final value 1346.133412
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.325620
iter 20 value 1351.983981
final value 1346.260963
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674054
iter 20 value 1352.556957
final value 1346.582516
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776494
iter 20 value 1352.495618
final value 1346.616709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.112930
iter 20 value 1351.835502
final value 1346.068222
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.763203
iter 20 value 1352.487904
final value 1346.616062
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765160
iter 20 value 1352.537757
final value 1346.616454
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761649
iter 20 value 1352.543058
final value 1346.617137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630785
iter 20 value 1352.311774
final value 1346.550279
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722956
iter 20 value 1352.526002
final value 1346.613381
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762505
iter 20 value 1352.558303
final value 1346.617075
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764402
iter 20 value 1352.537263
final value 1346.617070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752818
iter 20 value 1352.514723
final value 1346.616773
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724585
iter 20 value 1352.419004
final value 1346.600641
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.755429
iter 20 value 1352.535157
final value 1346.615796
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657496
iter 20 value 1352.529171
final value 1346.573815
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718058
iter 20 value 1352.523494
final value 1346.613998
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685028
iter 20 value 1352.463815
final value 1346.586504
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755989
iter 20 value 1352.546421
final value 1346.617041
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739121
iter 20 value 1352.559431
final value 1346.617062
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704769
iter 20 value 1352.671440
final value 1346.611092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614249
iter 20 value 1352.492869
final value 1346.564973
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767881
iter 20 value 1352.490279
final value 1346.616722
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.717029
iter 20 value 1351.262220
final value 1345.587042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690929
iter 20 value 1352.502900
final value 1346.600015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761917
iter 20 value 1352.534175
final value 1346.616515
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764048
iter 20 value 1352.561189
final value 1346.616806
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752638
iter 20 value 1352.580367
final value 1346.616956
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754056
iter 20 value 1352.597890
final value 1346.616376
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.779880
iter 20 value 1352.510648
final value 1346.617060
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698914
iter 20 value 1352.489023
final value 1346.599184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.781393
iter 20 value 1352.487063
final value 1346.616034
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1373.553729
iter 20 value 1348.476506
final value 1342.715090
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.868858
iter 20 value 1351.473702
final value 1345.713531
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723907
iter 20 value 1352.597987
final value 1346.614249
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739891
iter 20 value 1352.552923
final value 1346.616702
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757747
iter 20 value 1352.524636
final value 1346.617088
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712884
iter 20 value 1352.533871
final value 1346.612428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749857
iter 20 value 1352.531045
final value 1346.616754
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753212
iter 20 value 1352.543057
final value 1346.617095
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744711
iter 20 value 1352.542669
final value 1346.616679
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.759947
iter 20 value 1352.518747
final value 1346.616957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.777826
iter 20 value 1352.513642
final value 1346.617106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.081523
iter 20 value 1351.293249
final value 1346.014487
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774504
iter 20 value 1352.528681
final value 1346.616956
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.650936
iter 20 value 1352.516498
final value 1346.545206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749807
iter 20 value 1352.555878
final value 1346.617124
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712870
iter 20 value 1352.538784
final value 1346.612783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754721
iter 20 value 1352.504381
final value 1346.616691
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746676
iter 20 value 1352.527664
final value 1346.616874
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.755155
iter 20 value 1352.547007
final value 1346.616726
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.514896
iter 20 value 1352.258203
final value 1346.470535
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716447
iter 20 value 1352.580109
final value 1346.603173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744680
iter 20 value 1352.570108
final value 1346.617116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701837
iter 20 value 1352.444092
final value 1346.598320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759978
iter 20 value 1352.562154
final value 1346.615544
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756549
iter 20 value 1352.518144
final value 1346.616208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758161
iter 20 value 1352.528425
final value 1346.616803
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767878
iter 20 value 1352.545560
final value 1346.617130
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.760944
iter 20 value 1352.515720
final value 1346.615255
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773394
iter 20 value 1352.522157
final value 1346.617057
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760300
iter 20 value 1352.533555
final value 1346.617121
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747014
iter 20 value 1352.550970
final value 1346.616902
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766591
iter 20 value 1352.516313
final value 1346.616641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733932
iter 20 value 1352.576216
final value 1346.616509
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769226
iter 20 value 1352.534863
final value 1346.617135
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770694
iter 20 value 1352.490666
final value 1346.616319
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658272
iter 20 value 1352.474662
final value 1346.555288
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.779312
iter 20 value 1352.511963
final value 1346.616557
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.534782
iter 20 value 1352.391365
final value 1346.483915
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.670304
iter 20 value 1352.436001
final value 1346.588922
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757707
iter 20 value 1352.530457
final value 1346.617016
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747651
iter 20 value 1352.545361
final value 1346.616071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751969
iter 20 value 1352.603163
final value 1346.616429
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738976
iter 20 value 1352.437559
final value 1346.608510
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742577
iter 20 value 1352.513912
final value 1346.614630
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750545
iter 20 value 1352.548231
final value 1346.616991
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1375.292273
iter 20 value 1350.622895
final value 1345.275449
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749467
iter 20 value 1352.534987
final value 1346.614572
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709138
iter 20 value 1352.565828
final value 1346.612446
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768175
iter 20 value 1352.509693
final value 1346.616498
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759879
iter 20 value 1352.545581
final value 1346.616668
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703183
iter 20 value 1352.527565
final value 1346.608433
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760010
iter 20 value 1352.561780
final value 1346.616131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765069
iter 20 value 1352.555268
final value 1346.617098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741331
iter 20 value 1352.531658
final value 1346.615566
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.758368
iter 20 value 1352.525679
final value 1346.616999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748668
iter 20 value 1352.533697
final value 1346.616958
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704612
iter 20 value 1352.456246
final value 1346.598598
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.575674
iter 20 value 1352.346216
final value 1346.539029
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730650
iter 20 value 1352.571823
final value 1346.615213
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757566
iter 20 value 1352.524285
final value 1346.615525
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.887171
iter 20 value 1349.541352
final value 1344.311541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776835
iter 20 value 1352.510499
final value 1346.616928
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742132
iter 20 value 1352.519770
final value 1346.614963
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.720784
iter 20 value 1352.562883
final value 1346.611214
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733407
iter 20 value 1352.555775
final value 1346.615623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739502
iter 20 value 1352.593634
final value 1346.609033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692528
iter 20 value 1352.489866
final value 1346.605433
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762792
iter 20 value 1352.545908
final value 1346.616974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738711
iter 20 value 1352.629716
final value 1346.609808
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766341
iter 20 value 1352.524486
final value 1346.617065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761960
iter 20 value 1352.550145
final value 1346.616858
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706245
iter 20 value 1352.641357
final value 1346.608903
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.729032
iter 20 value 1352.529117
final value 1346.611420
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743416
iter 20 value 1352.535223
final value 1346.616065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765087
iter 20 value 1352.533104
final value 1346.615250
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750368
iter 20 value 1352.587314
final value 1346.616951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739636
iter 20 value 1352.576065
final value 1346.615822
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697628
iter 20 value 1352.576516
final value 1346.591337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606273
iter 20 value 1352.437770
final value 1346.525400
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758378
iter 20 value 1352.571206
final value 1346.617082
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737704
iter 20 value 1352.589781
final value 1346.612766
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1373.639364
iter 20 value 1349.334020
final value 1342.554487
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767854
iter 20 value 1352.509090
final value 1346.616737
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694639
iter 20 value 1352.474652
final value 1346.596597
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761645
iter 20 value 1352.539746
final value 1346.617069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749797
iter 20 value 1352.589224
final value 1346.617066
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.793694
iter 20 value 1351.174385
final value 1344.546065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.517262
iter 20 value 1352.080389
final value 1346.506099
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749702
iter 20 value 1352.553847
final value 1346.615997
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748847
iter 20 value 1352.526361
final value 1346.616189
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.767930
iter 20 value 1352.533721
final value 1346.617015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758722
iter 20 value 1352.577108
final value 1346.616646
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.726579
iter 20 value 1352.655498
final value 1346.612906
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719236
iter 20 value 1352.757438
final value 1346.604112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706118
iter 20 value 1352.585385
final value 1346.607389
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727636
iter 20 value 1352.477531
final value 1346.607346
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764542
iter 20 value 1352.542383
final value 1346.616890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749889
iter 20 value 1352.528952
final value 1346.616797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765557
iter 20 value 1352.546125
final value 1346.616738
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.717284
iter 20 value 1352.533151
final value 1346.613045
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.921469
iter 20 value 1351.560990
final value 1345.892225
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745808
iter 20 value 1352.575244
final value 1346.616844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757083
iter 20 value 1352.566745
final value 1346.615948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766970
iter 20 value 1352.532270
final value 1346.617108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744062
iter 20 value 1352.530268
final value 1346.615812
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738644
iter 20 value 1352.554145
final value 1346.615226
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764702
iter 20 value 1352.541266
final value 1346.617055
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753922
iter 20 value 1352.461608
final value 1346.616910
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.762227
iter 20 value 1352.520069
final value 1346.617081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723734
iter 20 value 1352.595462
final value 1346.612694
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741938
iter 20 value 1352.566759
final value 1346.613992
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697406
iter 20 value 1352.536824
final value 1346.600583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760313
iter 20 value 1352.533832
final value 1346.616864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768313
iter 20 value 1352.546516
final value 1346.617043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724989
iter 20 value 1352.544315
final value 1346.614133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772042
iter 20 value 1352.496334
final value 1346.616973
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751185
iter 20 value 1352.543985
final value 1346.617119
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.587637
iter 20 value 1352.491619
final value 1346.553351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660234
iter 20 value 1353.065090
final value 1346.586563
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764263
iter 20 value 1352.497848
final value 1346.616448
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.936968
iter 20 value 1349.152804
final value 1343.243462
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.193531
iter 20 value 1352.053557
final value 1346.153727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736448
iter 20 value 1352.518910
final value 1346.613025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762354
iter 20 value 1352.555128
final value 1346.617112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745082
iter 20 value 1352.510958
final value 1346.606986
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770508
iter 20 value 1352.534447
final value 1346.616942
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.706935
iter 20 value 1352.528475
final value 1346.606378
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749825
iter 20 value 1352.563832
final value 1346.613462
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.213123
iter 20 value 1352.150475
final value 1346.148159
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746968
iter 20 value 1352.580005
final value 1346.616579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768550
iter 20 value 1352.538243
final value 1346.617007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763046
iter 20 value 1352.532224
final value 1346.616838
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756409
iter 20 value 1352.569929
final value 1346.616958
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690706
iter 20 value 1352.342144
final value 1346.603606
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727830
iter 20 value 1352.600888
final value 1346.615852
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.755088
iter 20 value 1352.524171
final value 1346.617085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766917
iter 20 value 1352.503230
final value 1346.616983
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753982
iter 20 value 1352.519420
final value 1346.617064
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725139
iter 20 value 1352.544109
final value 1346.616778
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721419
iter 20 value 1352.670969
final value 1346.612364
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504532
iter 20 value 1353.220763
final value 1346.462749
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.598906
iter 20 value 1352.794249
final value 1346.528717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755270
iter 20 value 1352.544064
final value 1346.617043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766014
iter 20 value 1352.549991
final value 1346.616465
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.769765
iter 20 value 1352.552103
final value 1346.617056
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769396
iter 20 value 1352.567527
final value 1346.617028
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766038
iter 20 value 1352.534063
final value 1346.616802
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732431
iter 20 value 1352.627707
final value 1346.616563
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765531
iter 20 value 1352.512812
final value 1346.617004
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771191
iter 20 value 1352.520765
final value 1346.617126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631746
iter 20 value 1352.494329
final value 1346.563185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.405911
iter 20 value 1352.398990
final value 1346.358948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720905
iter 20 value 1352.508912
final value 1346.615958
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.759045
iter 20 value 1352.547547
final value 1346.616929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767336
iter 20 value 1352.517527
final value 1346.616526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647125
iter 20 value 1352.469539
final value 1346.553316
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725157
iter 20 value 1352.419516
final value 1346.599759
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762968
iter 20 value 1352.563168
final value 1346.616881
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738358
iter 20 value 1352.558259
final value 1346.615653
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745506
iter 20 value 1352.541644
final value 1346.604385
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749153
iter 20 value 1352.540971
final value 1346.616612
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.573667
iter 20 value 1353.227583
final value 1346.511469
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.493970
iter 20 value 1351.374941
final value 1345.416529
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.226624
iter 20 value 1351.771308
final value 1346.202090
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748077
iter 20 value 1352.505846
final value 1346.615079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756680
iter 20 value 1352.532959
final value 1346.616911
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689339
iter 20 value 1352.487426
final value 1346.600276
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769848
iter 20 value 1352.545893
final value 1346.615771
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727263
iter 20 value 1352.557194
final value 1346.612855
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716518
iter 20 value 1352.597535
final value 1346.604779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711669
iter 20 value 1352.592837
final value 1346.615875
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.768984
iter 20 value 1352.520237
final value 1346.616718
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750766
iter 20 value 1352.539250
final value 1346.617003
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765273
iter 20 value 1352.529869
final value 1346.617051
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768547
iter 20 value 1352.492542
final value 1346.616895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751407
iter 20 value 1352.576216
final value 1346.616960
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623240
iter 20 value 1352.606533
final value 1346.553476
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761943
iter 20 value 1352.539358
final value 1346.617101
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.564260
iter 20 value 1352.334385
final value 1346.534199
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733039
iter 20 value 1352.527957
final value 1346.616024
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.781184
iter 20 value 1352.515880
final value 1346.616895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757842
iter 20 value 1352.477398
final value 1346.610728
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755627
iter 20 value 1352.586178
final value 1346.617075
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743359
iter 20 value 1352.619278
final value 1346.616575
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710361
iter 20 value 1352.531152
final value 1346.607023
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764349
iter 20 value 1352.563382
final value 1346.616869
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752047
iter 20 value 1352.573464
final value 1346.616211
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.726621
iter 20 value 1352.947336
final value 1346.561226
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713933
iter 20 value 1352.597442
final value 1346.606418
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.771820
iter 20 value 1352.536387
final value 1346.616865
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766601
iter 20 value 1352.565491
final value 1346.616997
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761240
iter 20 value 1352.534634
final value 1346.616821
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.296449
iter 20 value 1353.152638
final value 1346.285901
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.244938
iter 20 value 1352.342851
final value 1346.186475
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744152
iter 20 value 1352.578480
final value 1346.615867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.599985
iter 20 value 1352.617762
final value 1346.544060
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765086
iter 20 value 1352.513781
final value 1346.617071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764070
iter 20 value 1352.541984
final value 1346.617005
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1374.897225
iter 20 value 1350.761259
final value 1344.749140
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754009
iter 20 value 1352.499093
final value 1346.616082
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734586
iter 20 value 1352.610971
final value 1346.614237
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767216
iter 20 value 1352.536552
final value 1346.617054
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739055
iter 20 value 1352.545071
final value 1346.611196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736774
iter 20 value 1352.586203
final value 1346.615899
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752653
iter 20 value 1352.573478
final value 1346.616974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754846
iter 20 value 1352.551027
final value 1346.617048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754963
iter 20 value 1352.525898
final value 1346.617082
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.747015
iter 20 value 1352.583861
final value 1346.617070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714725
iter 20 value 1352.553247
final value 1346.610178
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752230
iter 20 value 1352.539221
final value 1346.616151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727626
iter 20 value 1352.503221
final value 1346.612272
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766485
iter 20 value 1352.524905
final value 1346.617092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751561
iter 20 value 1352.568343
final value 1346.617122
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736402
iter 20 value 1352.554782
final value 1346.616229
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751576
iter 20 value 1352.531514
final value 1346.616982
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.380431
iter 20 value 1352.194841
final value 1346.312400
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.948321
iter 20 value 1351.682503
final value 1345.911009
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688419
iter 20 value 1352.526751
final value 1346.569840
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.548661
iter 20 value 1352.430445
final value 1346.444467
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.531586
iter 20 value 1352.387795
final value 1346.453273
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.824373
iter 20 value 1351.909501
final value 1345.820242
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.609931
iter 20 value 1352.445588
final value 1346.508898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.598060
iter 20 value 1352.435350
final value 1346.494835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606706
iter 20 value 1352.434419
final value 1346.432054
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758496
iter 20 value 1352.402389
final value 1346.446700
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.259568
iter 20 value 1352.058721
final value 1346.226757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.622435
iter 20 value 1352.187493
final value 1346.499753
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.785624
iter 20 value 1351.279061
final value 1345.693877
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.648962
iter 20 value 1350.818736
final value 1345.480510
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.547911
iter 20 value 1352.391716
final value 1346.411346
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507107
iter 20 value 1352.414421
final value 1346.430895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.558689
iter 20 value 1352.398032
final value 1346.474841
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.478466
iter 20 value 1352.376346
final value 1346.436158
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.158057
iter 20 value 1351.988683
final value 1346.064003
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.221522
iter 20 value 1349.864136
final value 1344.833512
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.706512
iter 20 value 1351.515009
final value 1345.698733
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.367764
iter 20 value 1352.260852
final value 1346.312894
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.186744
iter 20 value 1352.157303
final value 1346.202351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.597707
iter 20 value 1351.770517
final value 1345.685078
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.382793
iter 20 value 1352.273730
final value 1346.282764
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.228240
iter 20 value 1352.131769
final value 1346.196718
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.593170
iter 20 value 1352.457373
final value 1346.485206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.636632
iter 20 value 1352.535056
final value 1346.526201
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.642523
iter 20 value 1352.575594
final value 1346.561036
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.598117
iter 20 value 1352.445539
final value 1346.476486
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.603631
iter 20 value 1350.646160
final value 1344.572031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.620988
iter 20 value 1351.519305
final value 1345.616326
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.512238
iter 20 value 1351.397029
final value 1345.529592
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.422994
iter 20 value 1352.533436
final value 1346.207669
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.539571
iter 20 value 1352.019114
final value 1346.413461
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644313
iter 20 value 1352.513264
final value 1346.550316
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.154000
iter 20 value 1351.983340
final value 1346.019762
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.410001
iter 20 value 1352.289029
final value 1346.328530
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.437758
iter 20 value 1352.393302
final value 1346.316324
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577218
iter 20 value 1352.490298
final value 1346.433142
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.509812
iter 20 value 1352.267783
final value 1346.345874
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.467389
iter 20 value 1352.281929
final value 1346.375777
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460327
iter 20 value 1351.862546
final value 1346.376337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.294505
iter 20 value 1352.301580
final value 1346.156836
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576907
iter 20 value 1352.434840
final value 1346.448605
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.634000
iter 20 value 1350.660504
final value 1345.497207
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.512831
iter 20 value 1352.339637
final value 1346.427862
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.479273
iter 20 value 1352.382060
final value 1346.464691
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.702025
iter 20 value 1350.804837
final value 1345.664457
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.433030
iter 20 value 1352.290820
final value 1346.342355
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.339073
iter 20 value 1351.385105
final value 1344.942359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569420
iter 20 value 1352.335258
final value 1346.445414
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.522156
iter 20 value 1352.047222
final value 1346.416605
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.268956
iter 20 value 1351.614493
final value 1346.141325
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.538176
iter 20 value 1352.393225
final value 1346.474341
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.405850
iter 20 value 1351.769403
final value 1346.324688
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.501785
iter 20 value 1352.472790
final value 1346.357349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728618
iter 20 value 1352.532817
final value 1346.570228
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.698726
iter 20 value 1350.887705
final value 1344.565598
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.144729
iter 20 value 1351.872028
final value 1346.023507
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.199339
iter 20 value 1352.011227
final value 1346.096915
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648055
iter 20 value 1352.516533
final value 1346.496411
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676952
iter 20 value 1352.508711
final value 1346.550674
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601426
iter 20 value 1352.479392
final value 1346.484716
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.652791
iter 20 value 1352.566129
final value 1346.542725
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.160539
iter 20 value 1351.847451
final value 1346.118126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681452
iter 20 value 1352.585013
final value 1346.545684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602123
iter 20 value 1352.236499
final value 1346.486708
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.499738
iter 20 value 1352.781145
final value 1345.955337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.202938
iter 20 value 1352.168020
final value 1346.344751
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.470537
iter 20 value 1352.337009
final value 1346.436879
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696326
iter 20 value 1352.335395
final value 1346.518711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.448688
iter 20 value 1352.421645
final value 1346.483837
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.336318
iter 20 value 1352.369268
final value 1346.427769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.882383
iter 20 value 1351.953223
final value 1345.776955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.480498
iter 20 value 1352.637865
final value 1346.339540
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.557896
iter 20 value 1351.056983
final value 1345.550795
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.016983
iter 20 value 1352.053404
final value 1345.944100
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702934
iter 20 value 1352.543774
final value 1346.468292
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.485449
iter 20 value 1352.284101
final value 1346.397399
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602068
iter 20 value 1352.434805
final value 1346.501743
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738944
iter 20 value 1352.641388
final value 1346.493183
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.520428
iter 20 value 1352.392962
final value 1346.432729
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.442209
iter 20 value 1352.312739
final value 1346.346339
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.271388
iter 20 value 1352.197182
final value 1346.361021
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.600061
iter 20 value 1352.474356
final value 1346.484259
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.622346
iter 20 value 1352.558737
final value 1346.540522
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.620948
iter 20 value 1352.854954
final value 1346.350166
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.004623
iter 20 value 1351.972497
final value 1345.648955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.327509
iter 20 value 1352.409126
final value 1345.986836
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.226824
iter 20 value 1351.630329
final value 1346.170618
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.175857
iter 20 value 1351.205053
final value 1345.157835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.377872
iter 20 value 1351.924221
final value 1346.308447
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504097
iter 20 value 1352.386011
final value 1346.380498
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.959964
iter 20 value 1351.878919
final value 1345.646607
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.980310
iter 20 value 1351.160501
final value 1345.010957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.495226
iter 20 value 1351.508352
final value 1345.473355
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.325915
iter 20 value 1351.230173
final value 1344.998162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661927
iter 20 value 1352.708779
final value 1346.373926
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.353963
iter 20 value 1352.094790
final value 1346.205623
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.949597
iter 20 value 1351.724198
final value 1345.928174
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.166622
iter 20 value 1351.989208
final value 1346.092114
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717603
iter 20 value 1352.644926
final value 1346.593395
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.274795
iter 20 value 1351.661541
final value 1344.598935
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.139341
iter 20 value 1351.400699
final value 1344.521812
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.621479
iter 20 value 1352.189439
final value 1344.991775
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.294770
iter 20 value 1351.430018
final value 1344.704183
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690136
iter 20 value 1352.613419
final value 1346.580938
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411088
iter 20 value 1353.034849
final value 1346.274210
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.336927
iter 20 value 1352.459660
final value 1346.155027
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713071
iter 20 value 1352.642030
final value 1346.605276
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.039718
iter 20 value 1351.404310
final value 1344.344708
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.407626
iter 20 value 1351.735762
final value 1344.598624
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647058
iter 20 value 1352.578103
final value 1346.575401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700184
iter 20 value 1352.624153
final value 1346.578085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696912
iter 20 value 1352.603893
final value 1346.569845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.945699
iter 20 value 1351.433008
final value 1345.754588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.217203
iter 20 value 1352.065400
final value 1346.156763
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.503207
iter 20 value 1352.475396
final value 1346.390828
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684696
iter 20 value 1352.623824
final value 1346.586976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724565
iter 20 value 1352.558671
final value 1346.573795
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.306813
iter 20 value 1352.171579
final value 1346.207983
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574875
iter 20 value 1352.501851
final value 1346.484480
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.217203
iter 20 value 1352.065400
final value 1346.156763
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637902
iter 20 value 1352.543958
final value 1346.534001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696912
iter 20 value 1352.603893
final value 1346.569845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654159
iter 20 value 1352.549574
final value 1346.549497
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.700184
iter 20 value 1352.624153
final value 1346.578085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683466
iter 20 value 1352.618239
final value 1346.585043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684563
iter 20 value 1352.616829
final value 1346.585224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.544750
iter 20 value 1352.407403
final value 1346.440454
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679246
iter 20 value 1352.632848
final value 1346.593605
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658771
iter 20 value 1352.573657
final value 1346.567658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505434
iter 20 value 1352.366813
final value 1346.395698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678147
iter 20 value 1352.621839
final value 1346.594295
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.933480
iter 20 value 1351.617413
final value 1345.697849
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.689346
iter 20 value 1352.666874
final value 1346.599872
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.975933
iter 20 value 1351.892818
final value 1345.904815
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623720
iter 20 value 1352.507293
final value 1346.511887
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505434
iter 20 value 1352.366813
final value 1346.395698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.832608
iter 20 value 1351.857269
final value 1345.805478
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658771
iter 20 value 1352.573657
final value 1346.567658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678147
iter 20 value 1352.621839
final value 1346.594295
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711798
iter 20 value 1352.595211
final value 1346.469079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.979863
iter 20 value 1352.985519
final value 1345.934023
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.671615
iter 20 value 1352.624930
final value 1346.593852
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.531663
iter 20 value 1352.437715
final value 1346.436583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673066
iter 20 value 1352.545069
final value 1346.554770
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662489
iter 20 value 1352.646442
final value 1346.590867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685061
iter 20 value 1352.648965
final value 1346.600508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722370
iter 20 value 1352.653663
final value 1346.612007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616377
iter 20 value 1352.525248
final value 1346.533782
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631881
iter 20 value 1352.546954
final value 1346.499631
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574954
iter 20 value 1352.529802
final value 1346.531417
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.638848
iter 20 value 1352.603534
final value 1346.579451
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629759
iter 20 value 1352.586025
final value 1346.572952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.390985
iter 20 value 1352.294562
final value 1346.286847
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629641
iter 20 value 1352.615144
final value 1346.569715
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685917
iter 20 value 1352.604408
final value 1346.602585
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632402
iter 20 value 1352.618565
final value 1346.514785
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712120
iter 20 value 1352.606001
final value 1346.610648
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668979
iter 20 value 1352.632129
final value 1346.596272
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.562898
iter 20 value 1352.604919
final value 1346.425524
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.669095
iter 20 value 1352.553518
final value 1346.561939
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662427
iter 20 value 1352.636617
final value 1346.594493
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.555655
iter 20 value 1352.470397
final value 1346.470908
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.615344
iter 20 value 1352.545362
final value 1346.541007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652148
iter 20 value 1352.567276
final value 1346.542115
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679137
iter 20 value 1352.675621
final value 1346.601162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657138
iter 20 value 1352.651710
final value 1346.583850
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725440
iter 20 value 1352.705735
final value 1346.612205
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694252
iter 20 value 1352.597679
final value 1346.596534
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.718099
iter 20 value 1352.749633
final value 1346.549386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754266
iter 20 value 1352.669172
final value 1346.601178
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766251
iter 20 value 1352.698644
final value 1346.602468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617746
iter 20 value 1352.578720
final value 1346.580625
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664646
iter 20 value 1352.673386
final value 1346.595641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616485
iter 20 value 1352.517151
final value 1346.529507
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618996
iter 20 value 1352.559191
final value 1346.568725
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.354834
iter 20 value 1352.377718
final value 1346.467125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691578
iter 20 value 1352.612132
final value 1346.595103
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.643364
iter 20 value 1352.480251
final value 1346.524089
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.566999
iter 20 value 1352.475059
final value 1346.443733
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709659
iter 20 value 1352.604717
final value 1346.602752
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654321
iter 20 value 1352.603004
final value 1346.584834
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.492061
iter 20 value 1352.468735
final value 1346.441466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666181
iter 20 value 1352.663641
final value 1346.593676
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661353
iter 20 value 1352.651923
final value 1346.595993
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630603
iter 20 value 1352.614903
final value 1346.578286
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.496037
iter 20 value 1352.385957
final value 1346.394835
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.430127
iter 20 value 1352.204525
final value 1346.313878
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679987
iter 20 value 1352.645332
final value 1346.600267
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608755
iter 20 value 1352.556953
final value 1346.547932
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689091
iter 20 value 1352.621864
final value 1346.574885
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.350129
iter 20 value 1352.249154
final value 1346.329768
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.523808
iter 20 value 1352.399813
final value 1346.474548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.379407
iter 20 value 1352.303994
final value 1346.378163
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.245197
iter 20 value 1352.069047
final value 1346.204433
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.399895
iter 20 value 1352.238976
final value 1346.351931
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.568591
iter 20 value 1352.371764
final value 1346.473637
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.568434
iter 20 value 1352.528691
final value 1346.533857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.509432
iter 20 value 1352.421401
final value 1346.406292
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.188811
iter 20 value 1352.007575
final value 1346.030489
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.564762
iter 20 value 1351.494737
final value 1345.431911
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606147
iter 20 value 1352.510271
final value 1346.467334
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611331
iter 20 value 1352.468383
final value 1346.467219
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.600085
iter 20 value 1351.613726
final value 1345.548810
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.586139
iter 20 value 1352.582937
final value 1346.498144
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.283264
iter 20 value 1352.091880
final value 1346.204984
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.151234
iter 20 value 1351.987585
final value 1345.988217
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552161
iter 20 value 1352.432613
final value 1346.422356
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.558435
iter 20 value 1352.522055
final value 1346.433995
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.420665
iter 20 value 1352.362971
final value 1346.294148
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.461251
iter 20 value 1352.353511
final value 1346.343671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.540528
iter 20 value 1352.439319
final value 1346.388046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689195
iter 20 value 1352.495439
final value 1346.564093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625129
iter 20 value 1352.480967
final value 1346.536957
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.660092
iter 20 value 1352.500937
final value 1346.546857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618344
iter 20 value 1352.411570
final value 1346.525480
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.475488
iter 20 value 1352.378420
final value 1346.481562
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560421
iter 20 value 1352.430038
final value 1346.446714
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.517692
iter 20 value 1353.001464
final value 1345.985659
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.343357
iter 20 value 1352.676587
final value 1345.839805
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.295842
iter 20 value 1352.599860
final value 1345.821893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.295842
iter 20 value 1352.599860
final value 1345.821893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.749339
iter 20 value 1352.170208
final value 1345.228741
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.648391
iter 20 value 1353.011469
final value 1346.091873
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1377.078533
iter 20 value 1353.084373
final value 1346.470575
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.516250
iter 20 value 1352.379279
final value 1346.424135
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507709
iter 20 value 1352.517431
final value 1346.330694
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716365
iter 20 value 1352.705150
final value 1346.430829
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.509944
iter 20 value 1352.770315
final value 1346.040320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.542173
iter 20 value 1351.752752
final value 1345.132031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.397450
iter 20 value 1352.285257
final value 1346.229441
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.563430
iter 20 value 1352.492215
final value 1346.503637
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.052193
iter 20 value 1352.248231
final value 1345.831212
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.854741
iter 20 value 1352.784246
final value 1346.564321
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.952864
iter 20 value 1351.998915
final value 1345.806916
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.468765
iter 20 value 1352.556384
final value 1346.128926
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.498033
iter 20 value 1352.329411
final value 1346.393904
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.392393
iter 20 value 1352.845245
final value 1345.886270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.665407
iter 20 value 1352.237830
final value 1345.128701
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.334737
iter 20 value 1351.800407
final value 1344.750960
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.516900
iter 20 value 1352.875662
final value 1345.980104
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.624139
iter 20 value 1352.599740
final value 1346.555912
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.457703
iter 20 value 1352.720479
final value 1345.961913
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.295842
iter 20 value 1352.599860
final value 1345.821893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.295842
iter 20 value 1352.599860
final value 1345.821893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.295842
iter 20 value 1352.599860
final value 1345.821893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.829683
iter 20 value 1352.768175
final value 1346.557477
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736186
iter 20 value 1352.612939
final value 1346.610796
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628125
iter 20 value 1352.470765
final value 1346.515769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.521504
iter 20 value 1352.372026
final value 1346.434614
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.657334
iter 20 value 1352.568942
final value 1346.550946
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667852
iter 20 value 1352.599022
final value 1346.561093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623929
iter 20 value 1352.536597
final value 1346.509576
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696674
iter 20 value 1352.658803
final value 1346.554909
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687393
iter 20 value 1352.618119
final value 1346.575544
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638411
iter 20 value 1352.477566
final value 1346.520947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.551922
iter 20 value 1352.467763
final value 1346.418827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757763
iter 20 value 1352.706540
final value 1346.613085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666329
iter 20 value 1352.650090
final value 1346.581555
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.558246
iter 20 value 1352.484920
final value 1346.491481
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617351
iter 20 value 1352.482824
final value 1346.520448
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743738
iter 20 value 1352.601967
final value 1346.612043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647228
iter 20 value 1352.462814
final value 1346.517392
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657019
iter 20 value 1352.619106
final value 1346.526042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631384
iter 20 value 1352.535745
final value 1346.524958
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.476943
iter 20 value 1352.447473
final value 1346.360931
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667932
iter 20 value 1352.585973
final value 1346.555343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708982
iter 20 value 1352.644728
final value 1346.602106
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.577707
iter 20 value 1352.502885
final value 1346.470598
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569404
iter 20 value 1352.549530
final value 1346.454482
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776259
iter 20 value 1352.775491
final value 1346.607699
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740834
iter 20 value 1352.684743
final value 1346.603425
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.589588
iter 20 value 1352.525832
final value 1346.504426
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688333
iter 20 value 1352.600900
final value 1346.513051
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778693
iter 20 value 1352.720633
final value 1346.600212
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743021
iter 20 value 1352.566514
final value 1346.602724
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668491
iter 20 value 1352.514033
final value 1346.555293
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.720824
iter 20 value 1352.577241
final value 1346.601580
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637136
iter 20 value 1352.588144
final value 1346.557332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680800
iter 20 value 1352.619904
final value 1346.589077
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627279
iter 20 value 1352.509303
final value 1346.545637
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614835
iter 20 value 1352.467256
final value 1346.488431
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.587051
iter 20 value 1352.440866
final value 1346.458863
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657600
iter 20 value 1352.552383
final value 1346.544316
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695329
iter 20 value 1352.679580
final value 1346.574546
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709130
iter 20 value 1352.601704
final value 1346.582651
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.701996
iter 20 value 1352.699735
final value 1346.608286
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625717
iter 20 value 1352.538475
final value 1346.545637
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714106
iter 20 value 1352.669210
final value 1346.604093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.215727
iter 20 value 1352.031456
final value 1346.138888
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.719789
iter 20 value 1351.541383
final value 1345.703720
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716113
iter 20 value 1352.629769
final value 1346.604666
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651307
iter 20 value 1352.557056
final value 1346.557301
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711322
iter 20 value 1352.588773
final value 1346.588186
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633263
iter 20 value 1352.485643
final value 1346.527423
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.684170
iter 20 value 1352.603016
final value 1346.584977
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.663263
iter 20 value 1352.564097
final value 1346.543601
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723469
iter 20 value 1352.594013
final value 1346.587371
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633600
iter 20 value 1352.562217
final value 1346.564592
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695436
iter 20 value 1352.616328
final value 1346.597773
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713866
iter 20 value 1352.640588
final value 1346.605782
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706309
iter 20 value 1352.687066
final value 1346.606229
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676263
iter 20 value 1352.599063
final value 1346.567900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665920
iter 20 value 1352.639988
final value 1346.560078
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.701824
iter 20 value 1352.609669
final value 1346.590134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.322366
iter 20 value 1352.308032
final value 1346.195420
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.302948
iter 20 value 1352.214590
final value 1346.221579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.543662
iter 20 value 1352.291933
final value 1346.358143
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.166303
iter 20 value 1352.054168
final value 1345.930929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.550393
iter 20 value 1352.367611
final value 1346.456534
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664537
iter 20 value 1352.437227
final value 1346.521284
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.827839
iter 20 value 1352.501518
final value 1346.604021
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677250
iter 20 value 1352.452791
final value 1346.534396
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.750925
iter 20 value 1352.590787
final value 1346.611633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.497958
iter 20 value 1352.024449
final value 1346.274473
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535131
iter 20 value 1352.355859
final value 1346.392310
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.502554
iter 20 value 1352.319790
final value 1346.378541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.686865
iter 20 value 1352.562376
final value 1346.546081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675479
iter 20 value 1352.538364
final value 1346.577371
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.448189
iter 20 value 1352.336565
final value 1346.351526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.506778
iter 20 value 1352.381925
final value 1346.407823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661370
iter 20 value 1352.545260
final value 1346.580766
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.393369
iter 20 value 1352.265469
final value 1346.274398
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604262
iter 20 value 1352.476118
final value 1346.515026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610853
iter 20 value 1352.516258
final value 1346.496287
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.417481
iter 20 value 1352.305917
final value 1346.304059
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654189
iter 20 value 1352.546247
final value 1346.545297
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.655162
iter 20 value 1352.553452
final value 1346.544094
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685797
iter 20 value 1352.597145
final value 1346.572828
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.437134
iter 20 value 1352.292075
final value 1346.331583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.368821
iter 20 value 1352.234156
final value 1346.270315
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.689945
iter 20 value 1352.553801
final value 1346.569303
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.274902
iter 20 value 1352.490837
final value 1345.875020
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.176939
iter 20 value 1352.080698
final value 1346.141702
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.469380
iter 20 value 1352.307676
final value 1346.384441
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668963
iter 20 value 1352.543897
final value 1346.573225
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623924
iter 20 value 1352.445596
final value 1346.524284
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617643
iter 20 value 1352.450163
final value 1346.518288
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617263
iter 20 value 1352.435864
final value 1346.516995
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668492
iter 20 value 1352.540062
final value 1346.571845
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.104871
iter 20 value 1352.182443
final value 1346.122782
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.553974
iter 20 value 1352.380133
final value 1346.466176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640679
iter 20 value 1352.449103
final value 1346.530070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.406404
iter 20 value 1352.358555
final value 1346.284345
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692375
iter 20 value 1352.618416
final value 1346.582280
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689540
iter 20 value 1352.561145
final value 1346.597139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.409074
iter 20 value 1352.263975
final value 1346.329915
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685917
iter 20 value 1352.573187
final value 1346.589865
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.490029
iter 20 value 1352.416375
final value 1346.372389
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.722680
iter 20 value 1352.620285
final value 1346.597230
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.483279
iter 20 value 1351.288949
final value 1345.347024
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709878
iter 20 value 1352.597655
final value 1346.587030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669272
iter 20 value 1352.532522
final value 1346.523588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710175
iter 20 value 1352.600230
final value 1346.578084
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691290
iter 20 value 1352.561644
final value 1346.575293
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625362
iter 20 value 1352.507920
final value 1346.539807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648149
iter 20 value 1352.563843
final value 1346.568048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625089
iter 20 value 1352.542175
final value 1346.551831
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.592443
iter 20 value 1352.441517
final value 1346.502098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.613379
iter 20 value 1352.495538
final value 1346.531312
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661707
iter 20 value 1352.566108
final value 1346.571283
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.954630
iter 20 value 1352.067436
final value 1345.765818
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.340839
iter 20 value 1351.581422
final value 1344.878278
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.641414
iter 20 value 1352.401491
final value 1346.515120
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.965131
iter 20 value 1351.844376
final value 1345.875494
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.425431
iter 20 value 1349.960241
final value 1344.040189
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.557469
iter 20 value 1352.438185
final value 1346.443112
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.332076
iter 20 value 1351.080855
final value 1345.158827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761346
iter 20 value 1352.912709
final value 1346.403619
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.116368
iter 20 value 1352.053108
final value 1345.811359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.020144
iter 20 value 1351.949988
final value 1345.773639
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.236011
iter 20 value 1351.983873
final value 1345.917687
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.996115
iter 20 value 1351.994310
final value 1345.746947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.245466
iter 20 value 1352.147901
final value 1346.082547
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707144
iter 20 value 1352.596966
final value 1346.417070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.335263
iter 20 value 1351.336324
final value 1345.070699
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.578400
iter 20 value 1352.409331
final value 1346.316842
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760808
iter 20 value 1352.558296
final value 1346.584731
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569004
iter 20 value 1352.399242
final value 1346.315287
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.439416
iter 20 value 1350.427094
final value 1344.356835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.365296
iter 20 value 1352.240663
final value 1346.265713
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.281797
iter 20 value 1352.109770
final value 1346.241053
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700577
iter 20 value 1352.592426
final value 1346.604692
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.533590
iter 20 value 1352.430350
final value 1346.435711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.571465
iter 20 value 1349.982243
final value 1343.299588
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.652149
iter 20 value 1352.593615
final value 1346.581126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525275
iter 20 value 1352.392357
final value 1346.415772
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.322109
iter 20 value 1350.744535
final value 1345.120651
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574139
iter 20 value 1352.431628
final value 1346.469645
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.414720
iter 20 value 1352.261885
final value 1346.310427
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.467542
iter 20 value 1352.332145
final value 1346.361744
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.645978
iter 20 value 1351.387265
final value 1345.552487
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.633317
iter 20 value 1349.851758
final value 1344.385758
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751850
iter 20 value 1352.599934
final value 1346.576446
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.700863
iter 20 value 1352.582456
final value 1346.588456
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.645345
iter 20 value 1352.409982
final value 1346.473633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.488332
iter 20 value 1352.293780
final value 1346.361914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653516
iter 20 value 1352.577126
final value 1346.563823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.533929
iter 20 value 1352.736512
final value 1346.408666
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680544
iter 20 value 1352.587246
final value 1346.583063
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.642963
iter 20 value 1352.587799
final value 1346.565017
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.596107
iter 20 value 1352.751598
final value 1346.458409
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689670
iter 20 value 1352.531363
final value 1346.578426
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.626191
iter 20 value 1352.388741
final value 1346.499712
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.621032
iter 20 value 1352.474096
final value 1346.501428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698547
iter 20 value 1352.543233
final value 1346.601261
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653504
iter 20 value 1352.549112
final value 1346.539145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.889162
iter 20 value 1351.797901
final value 1345.794573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646008
iter 20 value 1352.493509
final value 1346.533745
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704455
iter 20 value 1352.552254
final value 1346.583558
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.672293
iter 20 value 1352.564368
final value 1346.571405
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673185
iter 20 value 1352.515410
final value 1346.558652
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.033912
iter 20 value 1351.905885
final value 1345.981161
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.655475
iter 20 value 1352.559006
final value 1346.567448
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648451
iter 20 value 1352.519747
final value 1346.574793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.274203
iter 20 value 1352.096412
final value 1346.259457
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.547768
iter 20 value 1352.295248
final value 1346.422303
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713335
iter 20 value 1352.553666
final value 1346.595822
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673027
iter 20 value 1352.549035
final value 1346.541788
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680501
iter 20 value 1352.668728
final value 1346.581909
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.523930
iter 20 value 1352.362389
final value 1346.457202
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.616994
iter 20 value 1352.482585
final value 1346.514998
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.022168
iter 20 value 1351.761063
final value 1346.039789
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.613906
iter 20 value 1352.570246
final value 1346.580252
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.451677
iter 20 value 1352.296426
final value 1346.377745
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701486
iter 20 value 1352.580834
final value 1346.591173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627381
iter 20 value 1352.638255
final value 1346.584203
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698440
iter 20 value 1352.537525
final value 1346.578139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.456221
iter 20 value 1352.293488
final value 1346.372131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.136014
iter 20 value 1351.994691
final value 1346.083661
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.507306
iter 20 value 1352.334107
final value 1346.457727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.441637
iter 20 value 1352.341910
final value 1346.331526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716232
iter 20 value 1352.623175
final value 1346.586767
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676491
iter 20 value 1352.554966
final value 1346.571118
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647816
iter 20 value 1352.504194
final value 1346.536748
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695072
iter 20 value 1352.546450
final value 1346.589671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660426
iter 20 value 1352.563561
final value 1346.579589
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680112
iter 20 value 1352.574673
final value 1346.578243
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617619
iter 20 value 1352.551954
final value 1346.565224
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.062395
iter 20 value 1352.043883
final value 1346.050869
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577841
iter 20 value 1352.527187
final value 1346.488952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.302154
iter 20 value 1352.966843
final value 1346.156175
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657802
iter 20 value 1352.556325
final value 1346.566310
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.464327
iter 20 value 1351.523150
final value 1345.392753
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.216780
iter 20 value 1353.753430
final value 1346.097941
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.285336
iter 20 value 1351.039316
final value 1344.934133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.233591
iter 20 value 1352.163861
final value 1346.185905
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.419430
iter 20 value 1352.474541
final value 1346.259290
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.247141
iter 20 value 1352.478288
final value 1345.979580
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683797
iter 20 value 1352.592910
final value 1346.593700
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.573943
iter 20 value 1352.530415
final value 1346.540141
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.564337
iter 20 value 1351.777190
final value 1345.664658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.221956
iter 20 value 1352.160129
final value 1346.186108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.195319
iter 20 value 1352.118308
final value 1346.140160
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.491980
iter 20 value 1352.515319
final value 1346.341343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.261163
iter 20 value 1352.307356
final value 1346.105513
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.202051
iter 20 value 1353.837970
final value 1345.982089
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.804793
iter 20 value 1351.672676
final value 1345.918811
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.457314
iter 20 value 1352.329884
final value 1346.375907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640425
iter 20 value 1352.591318
final value 1346.571722
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.516098
iter 20 value 1352.379190
final value 1346.409817
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.115242
iter 20 value 1352.072411
final value 1346.078798
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.534613
iter 20 value 1349.952042
final value 1344.219583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618812
iter 20 value 1352.546622
final value 1346.542043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460254
iter 20 value 1352.377838
final value 1346.406234
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.752721
iter 20 value 1351.802032
final value 1345.725692
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.664565
iter 20 value 1352.524697
final value 1346.570317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.319164
iter 20 value 1352.215366
final value 1346.241850
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.571224
iter 20 value 1349.790579
final value 1343.237644
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.101217
iter 20 value 1352.068796
final value 1346.075450
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601416
iter 20 value 1352.429649
final value 1346.531018
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737390
iter 20 value 1352.669199
final value 1346.609456
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763397
iter 20 value 1352.621944
final value 1346.615252
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660667
iter 20 value 1352.965079
final value 1346.283952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718065
iter 20 value 1353.000056
final value 1346.583748
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.583858
iter 20 value 1352.485656
final value 1346.560009
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.518797
iter 20 value 1352.447710
final value 1346.506313
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.487435
iter 20 value 1352.336206
final value 1346.417079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734666
iter 20 value 1352.568611
final value 1346.584846
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.834683
iter 20 value 1350.543462
final value 1344.599658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763133
iter 20 value 1352.625272
final value 1346.611948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.672458
iter 20 value 1352.624282
final value 1346.585529
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.971093
iter 20 value 1351.739370
final value 1345.932808
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741791
iter 20 value 1352.628388
final value 1346.613968
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.650134
iter 20 value 1352.554805
final value 1346.571240
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.492916
iter 20 value 1352.716956
final value 1346.361595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752513
iter 20 value 1352.593348
final value 1346.601844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707678
iter 20 value 1352.582202
final value 1346.606433
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.537446
iter 20 value 1352.396466
final value 1346.500390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.166682
iter 20 value 1352.243471
final value 1346.137694
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709670
iter 20 value 1352.556986
final value 1346.588691
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625978
iter 20 value 1352.402812
final value 1346.515696
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665129
iter 20 value 1352.480388
final value 1346.565057
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.696394
iter 20 value 1352.550713
final value 1346.589125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706752
iter 20 value 1352.541789
final value 1346.588069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694555
iter 20 value 1352.539385
final value 1346.584695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773303
iter 20 value 1352.635188
final value 1346.615317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722815
iter 20 value 1352.576475
final value 1346.596151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768074
iter 20 value 1352.630956
final value 1346.614992
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.518520
iter 20 value 1352.366403
final value 1346.435046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669454
iter 20 value 1352.558787
final value 1346.542769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681606
iter 20 value 1352.600812
final value 1346.585652
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.696107
iter 20 value 1352.636707
final value 1346.602153
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727543
iter 20 value 1352.543084
final value 1346.589428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729474
iter 20 value 1352.573416
final value 1346.607931
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.346804
iter 20 value 1352.370734
final value 1346.184807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722480
iter 20 value 1352.596400
final value 1346.607870
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.639116
iter 20 value 1352.548822
final value 1346.549173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728312
iter 20 value 1352.571298
final value 1346.592270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633402
iter 20 value 1352.371877
final value 1346.510995
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.399379
iter 20 value 1352.378589
final value 1346.238662
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.629064
iter 20 value 1352.467172
final value 1346.523824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667183
iter 20 value 1352.485341
final value 1346.549313
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.431284
iter 20 value 1352.176954
final value 1346.310321
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633807
iter 20 value 1352.436297
final value 1346.419329
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696865
iter 20 value 1352.575596
final value 1346.585445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.114840
iter 20 value 1352.003149
final value 1345.877823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.500768
iter 20 value 1352.396278
final value 1346.417485
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696962
iter 20 value 1352.634782
final value 1346.597957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680997
iter 20 value 1352.603859
final value 1346.582878
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.826453
iter 20 value 1353.243420
final value 1346.072689
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614966
iter 20 value 1352.572405
final value 1346.569049
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704064
iter 20 value 1352.616697
final value 1346.600286
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.686357
iter 20 value 1352.585090
final value 1346.584273
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696865
iter 20 value 1352.575596
final value 1346.585445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664999
iter 20 value 1352.513225
final value 1346.549824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723642
iter 20 value 1352.554594
final value 1346.594760
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.523954
iter 20 value 1352.463836
final value 1346.461421
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.501611
iter 20 value 1352.441343
final value 1346.482936
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.563098
iter 20 value 1351.570015
final value 1346.415882
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727543
iter 20 value 1352.543084
final value 1346.589428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.563497
iter 20 value 1352.441902
final value 1346.460092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644510
iter 20 value 1352.544625
final value 1346.531353
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.484403
iter 20 value 1352.378791
final value 1346.375765
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644510
iter 20 value 1352.544625
final value 1346.531353
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.619096
iter 20 value 1352.576572
final value 1346.564133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696865
iter 20 value 1352.575596
final value 1346.585445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624208
iter 20 value 1352.502892
final value 1346.508412
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.718644
iter 20 value 1352.548354
final value 1346.594002
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731696
iter 20 value 1352.642236
final value 1346.603539
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692159
iter 20 value 1352.614173
final value 1346.598092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689394
iter 20 value 1352.637937
final value 1346.599393
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696865
iter 20 value 1352.575596
final value 1346.585445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.590199
iter 20 value 1352.501846
final value 1346.511727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674125
iter 20 value 1352.628897
final value 1346.589992
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750961
iter 20 value 1352.593535
final value 1346.601285
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.269259
iter 20 value 1352.063206
final value 1346.253591
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.863199
iter 20 value 1351.614663
final value 1345.864289
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.116696
iter 20 value 1351.967870
final value 1346.138596
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.023087
iter 20 value 1350.792303
final value 1344.948087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.237192
iter 20 value 1351.088204
final value 1345.244117
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680919
iter 20 value 1352.553619
final value 1346.554588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552642
iter 20 value 1352.239220
final value 1346.352594
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.738736
iter 20 value 1351.664233
final value 1345.682526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411246
iter 20 value 1352.194823
final value 1346.271238
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.312437
iter 20 value 1352.065000
final value 1346.209342
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.993955
iter 20 value 1351.777381
final value 1345.845807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741266
iter 20 value 1352.536027
final value 1346.608658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.545985
iter 20 value 1351.371862
final value 1345.400955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.495477
iter 20 value 1352.340058
final value 1346.379461
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.890661
iter 20 value 1351.786401
final value 1345.819684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.102500
iter 20 value 1351.725432
final value 1345.951344
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669396
iter 20 value 1352.460542
final value 1346.556484
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.085533
iter 20 value 1350.909108
final value 1344.862192
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711098
iter 20 value 1352.359389
final value 1346.558888
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.094860
iter 20 value 1351.881232
final value 1346.015301
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679100
iter 20 value 1352.331277
final value 1346.510278
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734494
iter 20 value 1352.508190
final value 1346.577908
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574873
iter 20 value 1352.621552
final value 1346.495028
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.539378
iter 20 value 1351.314681
final value 1345.439270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.423671
iter 20 value 1351.044404
final value 1345.235331
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.080879
iter 20 value 1350.918923
final value 1344.984879
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.605593
iter 20 value 1351.493915
final value 1345.524695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.598247
iter 20 value 1352.374687
final value 1346.512839
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.475498
iter 20 value 1351.438430
final value 1345.494111
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.715607
iter 20 value 1351.848663
final value 1345.793411
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.877075
iter 20 value 1351.607324
final value 1345.782719
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.453223
iter 20 value 1352.307319
final value 1346.375997
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.434557
iter 20 value 1352.757375
final value 1346.421891
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577785
iter 20 value 1352.622058
final value 1346.380841
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.263176
iter 20 value 1352.103773
final value 1346.242358
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.880965
iter 20 value 1351.633495
final value 1345.870081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.231728
iter 20 value 1352.014689
final value 1346.082738
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.595666
iter 20 value 1352.887875
final value 1346.538417
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360322
iter 20 value 1352.133921
final value 1346.198622
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.641056
iter 20 value 1351.433112
final value 1345.613941
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.187373
iter 20 value 1351.972848
final value 1346.212984
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.465453
iter 20 value 1352.162449
final value 1346.362833
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.154335
iter 20 value 1352.132390
final value 1346.056844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.435491
iter 20 value 1352.199980
final value 1346.326839
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.848670
iter 20 value 1351.687056
final value 1345.800671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702462
iter 20 value 1352.611341
final value 1346.592808
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.123236
iter 20 value 1351.303735
final value 1344.833622
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.766812
iter 20 value 1351.652285
final value 1345.805951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725631
iter 20 value 1352.557818
final value 1346.604280
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679224
iter 20 value 1352.553038
final value 1346.604551
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.702760
iter 20 value 1351.535579
final value 1345.635820
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.938766
iter 20 value 1352.588594
final value 1345.985781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.326220
iter 20 value 1351.614779
final value 1346.153844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616838
iter 20 value 1352.395316
final value 1346.488191
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507515
iter 20 value 1352.348697
final value 1346.430993
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.776592
iter 20 value 1352.528301
final value 1346.602627
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684070
iter 20 value 1352.384357
final value 1346.537576
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.254603
iter 20 value 1351.971538
final value 1346.179613
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.485425
iter 20 value 1351.741849
final value 1346.363725
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.320849
iter 20 value 1352.582838
final value 1346.253591
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.561346
iter 20 value 1352.389837
final value 1346.454282
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.269928
iter 20 value 1351.913623
final value 1346.033864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556216
iter 20 value 1352.571520
final value 1346.450532
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694786
iter 20 value 1352.331530
final value 1346.546585
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.451294
iter 20 value 1352.239717
final value 1346.349437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.473093
iter 20 value 1352.235313
final value 1346.395540
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644200
iter 20 value 1352.555709
final value 1346.533141
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.991885
iter 20 value 1351.911451
final value 1346.038814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710630
iter 20 value 1352.553502
final value 1346.614291
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.351751
iter 20 value 1352.168003
final value 1346.269566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.046896
iter 20 value 1351.946900
final value 1346.083198
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.156680
iter 20 value 1350.818177
final value 1344.885291
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.288959
iter 20 value 1351.227483
final value 1345.053846
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.957427
iter 20 value 1351.898271
final value 1345.929555
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.262632
iter 20 value 1350.204416
final value 1344.073754
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693395
iter 20 value 1352.621636
final value 1346.588786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.478235
iter 20 value 1352.538284
final value 1346.479170
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.367105
iter 20 value 1350.434640
final value 1344.235052
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.503446
iter 20 value 1352.518397
final value 1346.400195
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.045322
iter 20 value 1352.147045
final value 1346.120508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.240341
iter 20 value 1352.004745
final value 1346.106981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.434131
iter 20 value 1352.030701
final value 1345.186048
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.210582
iter 20 value 1350.890489
final value 1345.684183
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610494
iter 20 value 1353.895501
final value 1346.467658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.500188
iter 20 value 1352.086035
final value 1346.291168
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764066
iter 20 value 1352.592278
final value 1346.603048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629785
iter 20 value 1353.399397
final value 1346.411860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685005
iter 20 value 1352.495132
final value 1346.540912
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.571565
iter 20 value 1352.444736
final value 1346.454321
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.607515
iter 20 value 1352.381775
final value 1346.498330
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.967392
iter 20 value 1351.808918
final value 1345.920266
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.679473
iter 20 value 1352.615002
final value 1346.599013
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.512239
iter 20 value 1352.516122
final value 1346.509292
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.304027
iter 20 value 1352.133218
final value 1346.282951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.305026
iter 20 value 1352.158400
final value 1346.300002
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.820805
iter 20 value 1351.315775
final value 1345.832814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.419283
iter 20 value 1352.247059
final value 1346.343152
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.634182
iter 20 value 1352.478493
final value 1346.570677
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.333698
iter 20 value 1351.220047
final value 1345.310563
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667933
iter 20 value 1352.418084
final value 1346.553818
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.364796
iter 20 value 1352.177369
final value 1346.310438
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.176547
iter 20 value 1352.637192
final value 1346.175542
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.214083
iter 20 value 1352.156371
final value 1346.158081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.294694
iter 20 value 1352.265228
final value 1346.205709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.470378
iter 20 value 1352.379979
final value 1346.249154
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665553
iter 20 value 1352.649387
final value 1346.560143
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507111
iter 20 value 1352.305672
final value 1346.440645
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.865720
iter 20 value 1351.749413
final value 1345.824896
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.779719
iter 20 value 1351.619411
final value 1345.685208
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.536139
iter 20 value 1351.404841
final value 1345.457451
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.527892
iter 20 value 1352.256801
final value 1346.386564
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.899361
iter 20 value 1351.772427
final value 1345.755365
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.701549
iter 20 value 1350.728085
final value 1344.555375
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679876
iter 20 value 1352.498571
final value 1346.569974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.531030
iter 20 value 1352.408201
final value 1346.376556
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.777276
iter 20 value 1352.734594
final value 1346.510364
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748241
iter 20 value 1352.411764
final value 1346.562552
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.453567
iter 20 value 1352.216564
final value 1346.358896
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.373689
iter 20 value 1352.122105
final value 1346.187927
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.585134
iter 20 value 1351.280117
final value 1345.379900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.311688
iter 20 value 1352.258632
final value 1346.180854
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.361310
iter 20 value 1352.190715
final value 1346.351593
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.917267
iter 20 value 1351.947085
final value 1345.894907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.519246
iter 20 value 1351.317322
final value 1345.464102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.420867
iter 20 value 1351.395602
final value 1345.371585
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.032745
iter 20 value 1352.092594
final value 1345.953193
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.779012
iter 20 value 1351.457379
final value 1345.683326
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.614761
iter 20 value 1352.556638
final value 1346.543323
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.890653
iter 20 value 1349.887261
final value 1343.785711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.234334
iter 20 value 1352.241795
final value 1346.172457
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644538
iter 20 value 1352.486038
final value 1346.540321
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714495
iter 20 value 1352.647440
final value 1346.601391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.661118
iter 20 value 1351.474494
final value 1345.557234
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.272213
iter 20 value 1352.235586
final value 1346.257355
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.589759
iter 20 value 1352.463645
final value 1346.513742
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.476800
iter 20 value 1352.388675
final value 1346.326168
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.824939
iter 20 value 1351.650559
final value 1345.853014
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.983861
iter 20 value 1351.938489
final value 1345.881944
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.169170
iter 20 value 1351.083097
final value 1344.947184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.269180
iter 20 value 1350.691864
final value 1345.060328
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601426
iter 20 value 1352.562382
final value 1346.412699
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.429357
iter 20 value 1352.270717
final value 1346.370358
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.808561
iter 20 value 1351.749848
final value 1345.865748
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.247742
iter 20 value 1352.336756
final value 1346.371684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.043812
iter 20 value 1351.797356
final value 1346.174549
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.285116
iter 20 value 1352.420344
final value 1346.270530
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.358801
iter 20 value 1350.269973
final value 1344.359311
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.740694
iter 20 value 1351.705395
final value 1345.590849
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.247033
iter 20 value 1352.092317
final value 1346.195318
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649800
iter 20 value 1352.442996
final value 1346.473399
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.003311
iter 20 value 1350.832694
final value 1344.978179
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664712
iter 20 value 1352.497324
final value 1346.554991
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662984
iter 20 value 1352.472202
final value 1346.554320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.619397
iter 20 value 1352.182201
final value 1346.552106
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.333178
iter 20 value 1350.960205
final value 1345.115183
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.190920
iter 20 value 1351.623905
final value 1346.117388
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578358
iter 20 value 1352.334635
final value 1346.397430
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630888
iter 20 value 1352.504631
final value 1346.535169
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747120
iter 20 value 1352.418672
final value 1346.542006
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.094994
iter 20 value 1352.190782
final value 1346.184877
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755490
iter 20 value 1352.502909
final value 1346.604263
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.009284
iter 20 value 1351.374054
final value 1345.969040
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628284
iter 20 value 1352.564938
final value 1346.556311
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.150485
iter 20 value 1351.934726
final value 1345.980292
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625207
iter 20 value 1352.564286
final value 1346.559653
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.868941
iter 20 value 1351.689557
final value 1345.756396
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.229050
iter 20 value 1352.101377
final value 1346.248623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671754
iter 20 value 1352.631919
final value 1346.588803
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604565
iter 20 value 1352.370299
final value 1346.481235
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644938
iter 20 value 1352.320168
final value 1346.446814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582899
iter 20 value 1352.324134
final value 1346.474349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.879340
iter 20 value 1352.460407
final value 1346.597588
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.628089
iter 20 value 1352.645506
final value 1346.511087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.561810
iter 20 value 1352.439744
final value 1346.448011
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.581166
iter 20 value 1352.955391
final value 1346.495979
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.561103
iter 20 value 1352.436389
final value 1346.483740
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682967
iter 20 value 1352.562465
final value 1346.561443
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.569789
iter 20 value 1351.102233
final value 1345.463957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.073886
iter 20 value 1352.017744
final value 1345.969320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.364801
iter 20 value 1352.193786
final value 1346.292485
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.231475
iter 20 value 1349.955214
final value 1343.774222
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.623785
iter 20 value 1352.464574
final value 1346.471208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653205
iter 20 value 1352.627377
final value 1346.586763
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.780142
iter 20 value 1352.539863
final value 1346.604671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.396672
iter 20 value 1352.254257
final value 1346.299399
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.582259
iter 20 value 1351.554831
final value 1345.434754
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528305
iter 20 value 1352.227459
final value 1346.438715
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504454
iter 20 value 1352.253965
final value 1346.421596
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.358173
iter 20 value 1352.318007
final value 1346.243090
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698056
iter 20 value 1352.524612
final value 1346.500159
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.628776
iter 20 value 1352.477091
final value 1346.444396
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.419248
iter 20 value 1352.534678
final value 1346.405566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.512203
iter 20 value 1352.066691
final value 1346.318075
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653308
iter 20 value 1352.570636
final value 1346.566494
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.499413
iter 20 value 1352.499179
final value 1346.492421
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690287
iter 20 value 1352.536594
final value 1346.615437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.463728
iter 20 value 1352.115021
final value 1345.369502
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.568369
iter 20 value 1352.352778
final value 1346.429424
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728656
iter 20 value 1352.521387
final value 1346.614630
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1374.779138
iter 20 value 1350.583969
final value 1344.607794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.017341
iter 20 value 1351.738258
final value 1345.862875
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735463
iter 20 value 1352.511113
final value 1346.596722
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659451
iter 20 value 1352.446306
final value 1346.536286
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.153687
iter 20 value 1351.962312
final value 1346.108242
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.600703
iter 20 value 1352.552201
final value 1346.516299
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674660
iter 20 value 1352.501908
final value 1346.562355
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.546451
iter 20 value 1351.407344
final value 1345.516080
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578197
iter 20 value 1352.231202
final value 1346.447892
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.875233
iter 20 value 1352.300779
final value 1345.463248
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.215959
iter 20 value 1350.949367
final value 1345.033543
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.394672
iter 20 value 1352.219948
final value 1346.309948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460749
iter 20 value 1352.244569
final value 1346.343124
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.480044
iter 20 value 1352.469638
final value 1346.465575
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.116982
iter 20 value 1351.984609
final value 1346.046123
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.700607
iter 20 value 1351.883428
final value 1345.718638
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.153928
iter 20 value 1351.880976
final value 1345.890398
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.952633
iter 20 value 1350.811361
final value 1344.696418
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1375.413810
iter 20 value 1351.349820
final value 1345.330201
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614443
iter 20 value 1352.573678
final value 1346.584952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.928174
iter 20 value 1350.749482
final value 1344.849202
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.251201
iter 20 value 1352.113681
final value 1346.182954
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.852615
iter 20 value 1350.769926
final value 1344.605401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.281080
iter 20 value 1352.042370
final value 1346.078890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.399116
iter 20 value 1352.902168
final value 1346.385254
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.909861
iter 20 value 1351.623135
final value 1346.022343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747831
iter 20 value 1352.507550
final value 1346.608419
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.619139
iter 20 value 1352.458469
final value 1346.527986
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.069641
iter 20 value 1352.017263
final value 1346.088511
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.108534
iter 20 value 1348.825045
final value 1343.830290
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.070838
iter 20 value 1352.168791
final value 1346.191354
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.155792
iter 20 value 1350.947120
final value 1344.923412
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.512328
iter 20 value 1350.071010
final value 1344.175355
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746224
iter 20 value 1352.600948
final value 1346.608460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.579495
iter 20 value 1351.139105
final value 1344.077095
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.395091
iter 20 value 1350.257937
final value 1344.191495
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.111733
iter 20 value 1351.068032
final value 1344.896224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.654832
iter 20 value 1350.568227
final value 1344.420906
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.203598
iter 20 value 1353.025442
final value 1346.249038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.215225
iter 20 value 1349.862456
final value 1343.986939
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.041553
iter 20 value 1352.067088
final value 1345.124185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737562
iter 20 value 1352.518523
final value 1346.615539
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.515970
iter 20 value 1350.775160
final value 1345.088318
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.131832
iter 20 value 1351.756211
final value 1345.922824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.285477
iter 20 value 1352.224185
final value 1346.167657
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.668773
iter 20 value 1352.406252
final value 1346.471925
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.597706
iter 20 value 1352.351124
final value 1346.419353
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.865475
iter 20 value 1349.919556
final value 1343.599918
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680247
iter 20 value 1352.480594
final value 1346.426934
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.029721
iter 20 value 1352.409849
final value 1346.108999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.202167
iter 20 value 1352.218023
final value 1346.168490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.948292
iter 20 value 1352.001357
final value 1345.881548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.702829
iter 20 value 1351.314403
final value 1345.345026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.488839
iter 20 value 1352.618232
final value 1346.510508
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.984130
iter 20 value 1351.845124
final value 1346.020855
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.112766
iter 20 value 1352.210397
final value 1346.151623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766710
iter 20 value 1352.469313
final value 1346.595793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.287164
iter 20 value 1351.985699
final value 1346.156857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625610
iter 20 value 1352.447109
final value 1346.475114
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.544797
iter 20 value 1352.602188
final value 1346.492227
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652575
iter 20 value 1352.509148
final value 1346.488518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675899
iter 20 value 1352.552389
final value 1346.549213
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.796006
iter 20 value 1350.562648
final value 1344.586509
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.504528
iter 20 value 1352.589769
final value 1346.469976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.017384
iter 20 value 1351.804479
final value 1345.857510
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700089
iter 20 value 1352.438657
final value 1346.574162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.901812
iter 20 value 1351.791473
final value 1345.826224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623390
iter 20 value 1352.614520
final value 1346.563679
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.423541
iter 20 value 1351.698252
final value 1346.193162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.233854
iter 20 value 1351.101644
final value 1345.118432
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.273025
iter 20 value 1352.370707
final value 1346.198906
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.836876
iter 20 value 1352.564943
final value 1345.899144
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.514729
iter 20 value 1352.382228
final value 1346.414129
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.510508
iter 20 value 1352.212640
final value 1346.303723
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.241167
iter 20 value 1351.606971
final value 1346.077662
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.794169
iter 20 value 1351.715405
final value 1345.736895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.914422
iter 20 value 1351.614171
final value 1345.976131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.468506
iter 20 value 1352.191094
final value 1346.394569
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.574505
iter 20 value 1351.456303
final value 1345.421811
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.729310
iter 20 value 1351.859000
final value 1345.781475
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730029
iter 20 value 1352.508586
final value 1346.606563
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.563465
iter 20 value 1352.193311
final value 1346.434985
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753897
iter 20 value 1352.535950
final value 1346.594932
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.513757
iter 20 value 1352.541733
final value 1346.459944
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693913
iter 20 value 1352.481077
final value 1346.578549
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.594023
iter 20 value 1351.411856
final value 1345.422351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.050573
iter 20 value 1352.040044
final value 1346.020037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675816
iter 20 value 1352.569880
final value 1346.585650
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.500363
iter 20 value 1352.074439
final value 1346.378820
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.946899
iter 20 value 1351.810648
final value 1345.901982
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.649319
iter 20 value 1352.371477
final value 1346.502185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.442134
iter 20 value 1352.003853
final value 1346.302199
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.424966
iter 20 value 1353.173275
final value 1346.448262
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.584648
iter 20 value 1352.480949
final value 1346.458220
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.374397
iter 20 value 1352.508302
final value 1346.443933
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.305385
iter 20 value 1352.257565
final value 1346.293943
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690041
iter 20 value 1352.461965
final value 1346.547585
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.571801
iter 20 value 1352.249270
final value 1346.448055
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632112
iter 20 value 1352.610836
final value 1346.509636
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.026990
iter 20 value 1352.539726
final value 1346.109532
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.932564
iter 20 value 1351.678755
final value 1345.713984
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.333012
iter 20 value 1352.269414
final value 1346.358771
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.634211
iter 20 value 1352.522588
final value 1346.538069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662354
iter 20 value 1352.396225
final value 1346.526827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.107946
iter 20 value 1351.992608
final value 1346.004224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.562267
iter 20 value 1352.535476
final value 1346.475200
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.518265
iter 20 value 1352.416736
final value 1346.448255
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.365211
iter 20 value 1352.105637
final value 1346.225666
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.564611
iter 20 value 1352.432362
final value 1346.480918
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.504387
iter 20 value 1351.288210
final value 1345.361338
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.358307
iter 20 value 1352.343207
final value 1346.156291
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.468029
iter 20 value 1352.638162
final value 1346.456736
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.495514
iter 20 value 1352.298486
final value 1346.438270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.424320
iter 20 value 1352.120353
final value 1346.345365
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677406
iter 20 value 1352.514755
final value 1346.545723
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.523817
iter 20 value 1352.530928
final value 1346.474071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682809
iter 20 value 1352.821440
final value 1346.570636
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.112494
iter 20 value 1351.940369
final value 1346.033368
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638995
iter 20 value 1353.095072
final value 1346.548407
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.340649
iter 20 value 1352.239116
final value 1346.193010
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.558190
iter 20 value 1352.158982
final value 1346.371125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.459531
iter 20 value 1352.349417
final value 1346.313330
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702041
iter 20 value 1352.499917
final value 1346.578761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411408
iter 20 value 1352.363551
final value 1346.273723
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.637750
iter 20 value 1351.826520
final value 1345.671262
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.386115
iter 20 value 1352.470806
final value 1346.294868
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.572576
iter 20 value 1352.701715
final value 1346.479284
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.208132
iter 20 value 1351.110373
final value 1345.014481
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.341664
iter 20 value 1351.263280
final value 1345.195040
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.203421
iter 20 value 1352.241088
final value 1346.040741
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.018121
iter 20 value 1352.022880
final value 1345.928783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739476
iter 20 value 1352.545451
final value 1346.609742
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.526018
iter 20 value 1351.458016
final value 1345.309897
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.482159
iter 20 value 1352.803907
final value 1346.371099
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.301551
iter 20 value 1352.698403
final value 1346.298405
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.634046
iter 20 value 1351.485688
final value 1345.505686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614931
iter 20 value 1352.563102
final value 1346.525678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.590980
iter 20 value 1352.606862
final value 1346.534753
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708882
iter 20 value 1352.485909
final value 1346.586550
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576859
iter 20 value 1352.310662
final value 1346.411053
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771401
iter 20 value 1352.584812
final value 1346.612862
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736219
iter 20 value 1352.546555
final value 1346.616414
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.347512
iter 20 value 1352.328365
final value 1346.232960
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.645023
iter 20 value 1352.547426
final value 1346.523215
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.349605
iter 20 value 1351.782506
final value 1346.314748
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460428
iter 20 value 1352.369634
final value 1346.381455
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.614631
iter 20 value 1352.329895
final value 1345.675865
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.078259
iter 20 value 1351.694314
final value 1346.001992
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.461751
iter 20 value 1352.474077
final value 1346.410718
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.663812
iter 20 value 1352.609610
final value 1346.608243
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.314854
iter 20 value 1352.077175
final value 1346.275316
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.567973
iter 20 value 1352.777948
final value 1346.494194
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.745472
iter 20 value 1351.861336
final value 1345.810805
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.347265
iter 20 value 1352.419228
final value 1346.251251
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611561
iter 20 value 1352.499054
final value 1346.505525
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.484772
iter 20 value 1352.276990
final value 1346.450783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.636742
iter 20 value 1351.933755
final value 1346.459912
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.471497
iter 20 value 1352.434718
final value 1346.369920
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.486500
iter 20 value 1352.337337
final value 1346.489160
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.743159
iter 20 value 1351.537804
final value 1345.724797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.962430
iter 20 value 1351.844393
final value 1346.060907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.337540
iter 20 value 1352.264580
final value 1346.235572
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.738951
iter 20 value 1352.498996
final value 1346.610979
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768896
iter 20 value 1352.558104
final value 1346.614882
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.449171
iter 20 value 1352.467562
final value 1346.285074
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676126
iter 20 value 1352.588118
final value 1346.600557
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646210
iter 20 value 1352.630341
final value 1346.549445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.713582
iter 20 value 1353.134949
final value 1345.575241
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.548450
iter 20 value 1352.484943
final value 1346.522464
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666616
iter 20 value 1352.514195
final value 1346.571597
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.964328
iter 20 value 1352.772558
final value 1345.785818
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.327890
iter 20 value 1350.994967
final value 1345.012918
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659992
iter 20 value 1352.778354
final value 1346.467022
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.775753
iter 20 value 1350.603169
final value 1344.940230
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.949890
iter 20 value 1352.396463
final value 1346.104615
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.310898
iter 20 value 1349.085708
final value 1342.804936
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.675808
iter 20 value 1349.737129
final value 1343.594187
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.518044
iter 20 value 1351.492143
final value 1345.579183
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709336
iter 20 value 1352.522769
final value 1346.580739
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.645082
iter 20 value 1352.134316
final value 1345.326405
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.471835
iter 20 value 1352.611624
final value 1346.342317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720717
iter 20 value 1352.484135
final value 1346.602463
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.744300
iter 20 value 1351.390741
final value 1345.683702
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602265
iter 20 value 1352.823594
final value 1346.482063
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750226
iter 20 value 1352.618910
final value 1346.607042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652019
iter 20 value 1352.289639
final value 1346.500412
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.435559
iter 20 value 1352.281220
final value 1346.312414
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.539173
iter 20 value 1352.461720
final value 1346.475218
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631267
iter 20 value 1352.667253
final value 1346.504383
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.220238
iter 20 value 1351.124942
final value 1345.172686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.648497
iter 20 value 1351.411001
final value 1345.511799
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644543
iter 20 value 1352.757118
final value 1346.580055
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.086459
iter 20 value 1352.107943
final value 1345.878407
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629731
iter 20 value 1352.795120
final value 1346.580853
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560392
iter 20 value 1352.485814
final value 1346.522035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556454
iter 20 value 1352.536387
final value 1346.476166
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.451408
iter 20 value 1352.389533
final value 1346.375012
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.246674
iter 20 value 1351.976329
final value 1346.118116
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1374.282797
iter 20 value 1350.149175
final value 1344.106539
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.215691
iter 20 value 1351.047327
final value 1345.007806
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700125
iter 20 value 1352.553962
final value 1346.596536
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.439131
iter 20 value 1352.231785
final value 1346.285470
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.175373
iter 20 value 1352.009639
final value 1346.149267
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.230376
iter 20 value 1352.065897
final value 1346.180581
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.586806
iter 20 value 1352.491011
final value 1346.521969
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.222612
iter 20 value 1351.950594
final value 1346.134382
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.395706
iter 20 value 1352.241251
final value 1346.289499
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.526858
iter 20 value 1352.399377
final value 1346.523208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.261321
iter 20 value 1352.237295
final value 1346.367332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630674
iter 20 value 1352.536045
final value 1346.568119
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.529499
iter 20 value 1352.502562
final value 1346.515798
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648305
iter 20 value 1352.546399
final value 1346.581450
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657404
iter 20 value 1352.535508
final value 1346.573545
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.515961
iter 20 value 1352.837072
final value 1346.467643
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528865
iter 20 value 1352.358483
final value 1346.414291
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702768
iter 20 value 1352.440197
final value 1346.555881
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.730018
iter 20 value 1352.582586
final value 1346.601151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.192899
iter 20 value 1352.074456
final value 1346.176064
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718387
iter 20 value 1352.598164
final value 1346.573625
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720099
iter 20 value 1352.594126
final value 1346.605577
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657634
iter 20 value 1352.483207
final value 1346.540365
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756543
iter 20 value 1352.212511
final value 1346.512239
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.231028
iter 20 value 1352.287925
final value 1346.156045
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.642556
iter 20 value 1352.674591
final value 1346.556252
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741663
iter 20 value 1352.629534
final value 1346.583361
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.609273
iter 20 value 1352.451959
final value 1346.507360
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.350553
iter 20 value 1352.345784
final value 1346.366943
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690453
iter 20 value 1352.670266
final value 1346.608164
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628973
iter 20 value 1352.603783
final value 1346.583530
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.427178
iter 20 value 1351.236494
final value 1345.328020
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.493661
iter 20 value 1352.388934
final value 1346.470602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.524238
iter 20 value 1352.332742
final value 1346.353876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360236
iter 20 value 1351.892598
final value 1346.227772
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578661
iter 20 value 1352.625905
final value 1346.537429
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.940539
iter 20 value 1352.207434
final value 1345.596137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.428318
iter 20 value 1352.225164
final value 1346.422004
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.609265
iter 20 value 1351.179683
final value 1345.112869
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.490501
iter 20 value 1352.420891
final value 1346.324727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.041188
iter 20 value 1351.853291
final value 1345.874196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.447569
iter 20 value 1351.448705
final value 1346.157079
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648969
iter 20 value 1352.630863
final value 1346.564767
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713324
iter 20 value 1352.554570
final value 1346.616308
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696311
iter 20 value 1352.487317
final value 1346.584155
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.283461
iter 20 value 1352.231460
final value 1346.287990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.310441
iter 20 value 1352.655207
final value 1346.233175
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.599627
iter 20 value 1351.304704
final value 1345.445774
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.106598
iter 20 value 1350.784522
final value 1344.921432
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.517262
iter 20 value 1352.718697
final value 1346.485599
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.155027
iter 20 value 1351.834598
final value 1346.020469
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723879
iter 20 value 1352.536223
final value 1346.599512
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.123613
iter 20 value 1351.147124
final value 1344.962933
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.565994
iter 20 value 1351.522841
final value 1345.582329
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.707573
iter 20 value 1352.795529
final value 1346.595230
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.354580
iter 20 value 1349.175705
final value 1344.011452
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.429699
iter 20 value 1351.118564
final value 1345.412412
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.414734
iter 20 value 1352.121726
final value 1346.334221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.462475
iter 20 value 1352.369232
final value 1346.418042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.223159
iter 20 value 1353.345969
final value 1346.020125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.309820
iter 20 value 1352.536628
final value 1346.283332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653804
iter 20 value 1352.167802
final value 1346.395245
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576109
iter 20 value 1352.478979
final value 1346.472927
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.727109
iter 20 value 1352.096964
final value 1346.410585
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552705
iter 20 value 1352.545149
final value 1346.420800
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.881027
iter 20 value 1351.709562
final value 1345.709421
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.377865
iter 20 value 1352.442527
final value 1346.286803
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.942455
iter 20 value 1351.738584
final value 1345.789508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.965840
iter 20 value 1351.742754
final value 1345.864975
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.981580
iter 20 value 1352.102156
final value 1345.972237
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.822523
iter 20 value 1351.725703
final value 1345.660158
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.885022
iter 20 value 1350.885646
final value 1344.659168
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.131700
iter 20 value 1351.092696
final value 1344.879956
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.603977
iter 20 value 1352.483709
final value 1346.454501
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.829188
iter 20 value 1351.768563
final value 1345.615337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.643633
iter 20 value 1351.514760
final value 1345.562643
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.891714
iter 20 value 1349.862137
final value 1343.589975
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669183
iter 20 value 1352.567866
final value 1346.566518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.966888
iter 20 value 1351.820981
final value 1345.858647
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.397135
iter 20 value 1352.666573
final value 1346.441460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.457966
iter 20 value 1349.490774
final value 1343.145410
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1373.644749
iter 20 value 1349.741630
final value 1343.404609
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.599991
iter 20 value 1352.647297
final value 1346.564200
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.572721
iter 20 value 1352.712458
final value 1346.506666
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662189
iter 20 value 1352.664858
final value 1346.544332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.533950
iter 20 value 1352.729673
final value 1346.474776
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.220096
iter 20 value 1352.516020
final value 1346.300620
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580858
iter 20 value 1352.462049
final value 1346.522760
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.486369
iter 20 value 1352.408817
final value 1346.411111
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644064
iter 20 value 1352.482035
final value 1346.494507
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.110934
iter 20 value 1352.299202
final value 1346.090107
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.737174
iter 20 value 1351.694685
final value 1345.867548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761369
iter 20 value 1352.597955
final value 1346.605895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.501615
iter 20 value 1352.434009
final value 1346.468272
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717992
iter 20 value 1352.565770
final value 1346.601660
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.965241
iter 20 value 1351.371763
final value 1345.984905
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.388441
iter 20 value 1352.240040
final value 1346.290443
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.183124
iter 20 value 1352.843386
final value 1346.046616
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.600342
iter 20 value 1352.586218
final value 1346.518589
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.202947
iter 20 value 1351.829020
final value 1346.162588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666290
iter 20 value 1352.516579
final value 1346.533245
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.418935
iter 20 value 1352.205998
final value 1346.256235
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.126438
iter 20 value 1351.669229
final value 1345.932082
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.310127
iter 20 value 1352.121995
final value 1346.245343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654378
iter 20 value 1352.503249
final value 1346.549591
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.413208
iter 20 value 1351.366383
final value 1345.459676
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.392328
iter 20 value 1352.629381
final value 1346.329470
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608107
iter 20 value 1352.606083
final value 1346.558907
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.354041
iter 20 value 1352.023922
final value 1346.140032
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.203412
iter 20 value 1351.096997
final value 1345.185821
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712371
iter 20 value 1352.482636
final value 1346.567473
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.723579
iter 20 value 1350.025380
final value 1344.516360
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.282269
iter 20 value 1352.625076
final value 1346.433179
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.467148
iter 20 value 1352.208151
final value 1346.382935
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.775729
iter 20 value 1351.214571
final value 1345.813435
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.010136
iter 20 value 1350.768638
final value 1344.777634
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.995589
iter 20 value 1351.812422
final value 1345.846138
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.555351
iter 20 value 1352.613072
final value 1346.578843
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.126751
iter 20 value 1350.971168
final value 1345.050900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694859
iter 20 value 1352.483334
final value 1346.562018
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.377976
iter 20 value 1351.097046
final value 1345.293526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360079
iter 20 value 1352.232847
final value 1346.163528
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.452979
iter 20 value 1352.263651
final value 1346.513202
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.096406
iter 20 value 1351.968188
final value 1346.092474
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753497
iter 20 value 1352.528493
final value 1346.607130
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.518607
iter 20 value 1352.539553
final value 1346.525068
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.106704
iter 20 value 1351.931713
final value 1346.096634
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.911749
iter 20 value 1349.990086
final value 1344.779908
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.375635
iter 20 value 1352.656389
final value 1346.419190
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.510311
iter 20 value 1351.282719
final value 1345.433895
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.405024
iter 20 value 1352.343102
final value 1346.365857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.648411
iter 20 value 1352.604247
final value 1346.590037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.780996
iter 20 value 1352.524107
final value 1346.603087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.226109
iter 20 value 1352.902716
final value 1346.251253
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.299003
iter 20 value 1350.150885
final value 1344.107820
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.609441
iter 20 value 1352.482735
final value 1346.527269
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.551885
iter 20 value 1352.548309
final value 1346.382859
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.288093
iter 20 value 1352.532384
final value 1346.146736
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.665200
iter 20 value 1351.635140
final value 1345.425561
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.663136
iter 20 value 1352.495266
final value 1346.566716
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720726
iter 20 value 1352.502902
final value 1346.600555
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.535315
iter 20 value 1351.446727
final value 1345.429467
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.310500
iter 20 value 1351.769314
final value 1345.911383
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694548
iter 20 value 1352.394024
final value 1346.517499
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.520333
iter 20 value 1352.412746
final value 1346.423455
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.335800
iter 20 value 1352.110292
final value 1346.165166
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629089
iter 20 value 1352.425264
final value 1346.532980
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714103
iter 20 value 1352.619449
final value 1346.596239
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.915391
iter 20 value 1351.854810
final value 1345.861013
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.054828
iter 20 value 1349.645642
final value 1343.713010
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.379058
iter 20 value 1352.081482
final value 1346.256617
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.650890
iter 20 value 1352.474482
final value 1346.535084
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.290801
iter 20 value 1351.858116
final value 1346.035444
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.528454
iter 20 value 1352.729044
final value 1346.560421
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.357179
iter 20 value 1352.379378
final value 1346.326206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.294455
iter 20 value 1351.122004
final value 1345.224581
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.345765
iter 20 value 1351.212076
final value 1345.247252
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.774623
iter 20 value 1350.765299
final value 1344.533126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.706703
iter 20 value 1349.549861
final value 1343.483783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.356528
iter 20 value 1352.260062
final value 1346.252847
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.996325
iter 20 value 1352.039407
final value 1345.547907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.483538
iter 20 value 1352.141639
final value 1346.351176
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.450780
iter 20 value 1352.539936
final value 1346.477858
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.250278
iter 20 value 1350.115368
final value 1344.112331
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.560759
iter 20 value 1350.570175
final value 1344.261005
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.501176
iter 20 value 1352.528414
final value 1346.410574
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624886
iter 20 value 1352.521271
final value 1346.366173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.594778
iter 20 value 1352.336116
final value 1346.501193
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.065065
iter 20 value 1350.876453
final value 1344.789985
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.491637
iter 20 value 1352.649177
final value 1346.541757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.356561
iter 20 value 1352.280864
final value 1346.344166
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.762981
iter 20 value 1352.517750
final value 1346.616197
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740019
iter 20 value 1352.617133
final value 1346.616814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756739
iter 20 value 1352.544888
final value 1346.616748
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752335
iter 20 value 1352.545774
final value 1346.616878
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.788571
iter 20 value 1348.825288
final value 1341.806721
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738940
iter 20 value 1352.532656
final value 1346.614290
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745443
iter 20 value 1352.520186
final value 1346.616578
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755882
iter 20 value 1352.554664
final value 1346.616974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560473
iter 20 value 1352.327546
final value 1346.530791
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.738713
iter 20 value 1352.623202
final value 1346.611083
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745871
iter 20 value 1352.591901
final value 1346.617006
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739195
iter 20 value 1352.718340
final value 1346.600767
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758589
iter 20 value 1352.534215
final value 1346.617133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763658
iter 20 value 1352.547252
final value 1346.617109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.469300
iter 20 value 1352.578505
final value 1346.483177
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753894
iter 20 value 1352.529698
final value 1346.616706
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750539
iter 20 value 1352.518934
final value 1346.616989
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.652265
iter 20 value 1351.192956
final value 1345.109625
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1374.869080
iter 20 value 1349.691876
final value 1344.408221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750912
iter 20 value 1352.584070
final value 1346.617116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.053351
iter 20 value 1351.458927
final value 1345.963088
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715008
iter 20 value 1352.528847
final value 1346.614599
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745922
iter 20 value 1352.572652
final value 1346.616658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.263531
iter 20 value 1351.748155
final value 1346.181824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742007
iter 20 value 1352.595202
final value 1346.615150
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770349
iter 20 value 1352.504962
final value 1346.616955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733228
iter 20 value 1352.535009
final value 1346.615525
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.575175
iter 20 value 1352.375226
final value 1346.519834
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749293
iter 20 value 1352.526222
final value 1346.616971
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727251
iter 20 value 1352.549316
final value 1346.615389
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747852
iter 20 value 1352.534493
final value 1346.615967
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734882
iter 20 value 1352.537759
final value 1346.615813
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.425461
iter 20 value 1352.484095
final value 1346.364924
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.388344
iter 20 value 1352.034854
final value 1346.319352
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771079
iter 20 value 1352.555281
final value 1346.617106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722195
iter 20 value 1352.531880
final value 1346.613615
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.745491
iter 20 value 1352.565597
final value 1346.617030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770170
iter 20 value 1352.506563
final value 1346.617044
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.183805
iter 20 value 1346.063568
final value 1341.007125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.613782
iter 20 value 1352.466352
final value 1346.570831
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.009119
iter 20 value 1351.573662
final value 1345.958609
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714380
iter 20 value 1352.578404
final value 1346.610016
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725085
iter 20 value 1352.519984
final value 1346.610040
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749106
iter 20 value 1352.530066
final value 1346.616559
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766048
iter 20 value 1352.530733
final value 1346.616403
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.707225
iter 20 value 1352.524659
final value 1346.610693
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.675503
iter 20 value 1350.399260
final value 1344.526581
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681038
iter 20 value 1352.526539
final value 1346.602358
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735140
iter 20 value 1352.563309
final value 1346.616227
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757209
iter 20 value 1352.591392
final value 1346.616081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747099
iter 20 value 1352.553374
final value 1346.616727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724844
iter 20 value 1352.540486
final value 1346.614898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760794
iter 20 value 1352.534487
final value 1346.616907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709963
iter 20 value 1352.541661
final value 1346.609475
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.728247
iter 20 value 1352.520298
final value 1346.612919
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696064
iter 20 value 1352.564732
final value 1346.602740
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666845
iter 20 value 1352.186189
final value 1346.587341
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748269
iter 20 value 1352.605030
final value 1346.610733
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756422
iter 20 value 1352.535511
final value 1346.616976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712074
iter 20 value 1353.112204
final value 1346.597000
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757430
iter 20 value 1352.515084
final value 1346.614825
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681123
iter 20 value 1352.553617
final value 1346.615584
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646285
iter 20 value 1352.487680
final value 1346.585149
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.715406
iter 20 value 1352.407546
final value 1346.610185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671824
iter 20 value 1352.758577
final value 1346.589595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761642
iter 20 value 1352.512358
final value 1346.614393
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.248511
iter 20 value 1351.906816
final value 1345.029887
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721772
iter 20 value 1352.636027
final value 1346.610855
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755534
iter 20 value 1352.517434
final value 1346.616948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751682
iter 20 value 1352.568339
final value 1346.616814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.634313
iter 20 value 1351.038478
final value 1345.124352
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754611
iter 20 value 1352.557124
final value 1346.617130
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.745319
iter 20 value 1352.607923
final value 1346.616483
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765458
iter 20 value 1352.530008
final value 1346.617110
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756418
iter 20 value 1352.530982
final value 1346.617139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680600
iter 20 value 1353.228592
final value 1346.589437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760724
iter 20 value 1352.573229
final value 1346.617130
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744672
iter 20 value 1352.494144
final value 1346.610659
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763409
iter 20 value 1352.512095
final value 1346.616827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751446
iter 20 value 1352.491989
final value 1346.614436
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.590058
iter 20 value 1352.377426
final value 1346.554538
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.719951
iter 20 value 1352.561358
final value 1346.616381
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720667
iter 20 value 1352.555973
final value 1346.614934
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733970
iter 20 value 1352.555189
final value 1346.609931
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743034
iter 20 value 1352.527879
final value 1346.614365
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699315
iter 20 value 1352.483658
final value 1346.615184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746017
iter 20 value 1352.624229
final value 1346.616742
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756855
iter 20 value 1352.504340
final value 1346.616224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.673298
iter 20 value 1348.917991
final value 1344.019423
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723152
iter 20 value 1352.582936
final value 1346.614739
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1373.547104
iter 20 value 1348.519818
final value 1342.368223
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731856
iter 20 value 1352.604522
final value 1346.616959
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.008713
iter 20 value 1351.679068
final value 1346.034676
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.234490
iter 20 value 1352.088027
final value 1346.290874
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.957870
iter 20 value 1351.898827
final value 1345.959594
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747409
iter 20 value 1352.603958
final value 1346.616838
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718476
iter 20 value 1352.550477
final value 1346.614684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657198
iter 20 value 1352.471110
final value 1346.553608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.394295
iter 20 value 1352.167092
final value 1346.384200
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.740796
iter 20 value 1352.542241
final value 1346.616142
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.388182
iter 20 value 1351.823210
final value 1346.343410
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595521
iter 20 value 1352.908992
final value 1346.540797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756833
iter 20 value 1352.560792
final value 1346.616980
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.707435
iter 20 value 1350.153616
final value 1344.287180
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756078
iter 20 value 1352.544778
final value 1346.617076
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772240
iter 20 value 1352.547021
final value 1346.616573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712267
iter 20 value 1352.530265
final value 1346.612619
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595962
iter 20 value 1352.528160
final value 1346.541894
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.613006
iter 20 value 1352.292126
final value 1346.532192
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569635
iter 20 value 1352.279151
final value 1346.529546
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720659
iter 20 value 1352.527745
final value 1346.615558
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.726073
iter 20 value 1352.520905
final value 1346.612373
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695591
iter 20 value 1352.452057
final value 1346.596779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.546186
iter 20 value 1352.612280
final value 1346.492985
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747512
iter 20 value 1352.497399
final value 1346.617087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761568
iter 20 value 1352.549554
final value 1346.616771
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719974
iter 20 value 1352.598442
final value 1346.612698
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1374.897594
iter 20 value 1349.666035
final value 1344.322332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749414
iter 20 value 1352.550382
final value 1346.617031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.404010
iter 20 value 1349.578466
final value 1343.139817
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725949
iter 20 value 1352.550739
final value 1346.616809
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765639
iter 20 value 1352.529361
final value 1346.616376
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751161
iter 20 value 1352.538747
final value 1346.617002
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755930
iter 20 value 1352.548648
final value 1346.617125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707477
iter 20 value 1352.523585
final value 1346.614140
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.347003
iter 20 value 1352.016029
final value 1346.344445
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.751330
iter 20 value 1352.547304
final value 1346.617031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741629
iter 20 value 1352.562513
final value 1346.616511
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.441521
iter 20 value 1353.827728
final value 1346.423328
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757940
iter 20 value 1352.525306
final value 1346.616793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732309
iter 20 value 1352.547077
final value 1346.615867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763988
iter 20 value 1352.529468
final value 1346.616757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746912
iter 20 value 1352.634242
final value 1346.616665
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738046
iter 20 value 1352.597150
final value 1346.614295
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.038124
iter 20 value 1352.477835
final value 1345.781120
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.670863
iter 20 value 1352.203688
final value 1346.589185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713764
iter 20 value 1352.609349
final value 1346.591793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.512560
iter 20 value 1352.179232
final value 1346.447970
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.445038
iter 20 value 1352.215351
final value 1346.450840
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699417
iter 20 value 1352.445630
final value 1346.607518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.098025
iter 20 value 1351.870834
final value 1346.072860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732507
iter 20 value 1352.548158
final value 1346.615784
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711668
iter 20 value 1352.550931
final value 1346.609930
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713439
iter 20 value 1352.654085
final value 1346.611502
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.757527
iter 20 value 1352.534137
final value 1346.617105
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723028
iter 20 value 1352.570018
final value 1346.609684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.439916
iter 20 value 1350.429941
final value 1345.188670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744206
iter 20 value 1352.594048
final value 1346.616675
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728885
iter 20 value 1352.565433
final value 1346.615477
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702580
iter 20 value 1352.550610
final value 1346.603629
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741462
iter 20 value 1352.559239
final value 1346.616707
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674003
iter 20 value 1352.370692
final value 1346.553514
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748118
iter 20 value 1352.566572
final value 1346.616716
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.762468
iter 20 value 1352.560000
final value 1346.616929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.571498
iter 20 value 1352.560184
final value 1346.500363
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724054
iter 20 value 1352.509424
final value 1346.616041
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766777
iter 20 value 1352.521712
final value 1346.616977
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758485
iter 20 value 1352.558834
final value 1346.616962
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525896
iter 20 value 1352.508728
final value 1346.532945
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649738
iter 20 value 1352.566014
final value 1346.588133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.314000
iter 20 value 1352.174275
final value 1346.308451
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735761
iter 20 value 1352.559418
final value 1346.616438
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.955590
iter 20 value 1351.799740
final value 1345.905516
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729467
iter 20 value 1352.543091
final value 1346.609907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.120376
iter 20 value 1351.747150
final value 1346.063203
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.123802
iter 20 value 1351.306407
final value 1346.040824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741918
iter 20 value 1352.544397
final value 1346.617096
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.085560
iter 20 value 1351.949197
final value 1346.102458
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.581516
iter 20 value 1352.624868
final value 1346.546749
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.430375
iter 20 value 1352.095371
final value 1346.420337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757284
iter 20 value 1352.544536
final value 1346.617108
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.523145
iter 20 value 1352.295862
final value 1346.509929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768609
iter 20 value 1352.533581
final value 1346.617081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722868
iter 20 value 1352.570129
final value 1346.614974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.965782
iter 20 value 1351.214120
final value 1345.763552
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754900
iter 20 value 1352.525050
final value 1346.616205
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741586
iter 20 value 1352.583375
final value 1346.616879
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525855
iter 20 value 1351.468151
final value 1346.346717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743415
iter 20 value 1352.514803
final value 1346.616117
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753541
iter 20 value 1352.550982
final value 1346.617137
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.711488
iter 20 value 1352.532533
final value 1346.612631
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707715
iter 20 value 1352.544010
final value 1346.608068
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758577
iter 20 value 1352.554215
final value 1346.617134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755834
iter 20 value 1352.550567
final value 1346.616997
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753957
iter 20 value 1352.614445
final value 1346.616876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752485
iter 20 value 1352.537701
final value 1346.617033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.087636
iter 20 value 1347.826493
final value 1341.079551
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747536
iter 20 value 1352.552973
final value 1346.616657
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713652
iter 20 value 1352.564242
final value 1346.614107
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.763762
iter 20 value 1352.555524
final value 1346.617118
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759336
iter 20 value 1352.545991
final value 1346.617110
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696853
iter 20 value 1352.556112
final value 1346.608038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.524618
iter 20 value 1352.156018
final value 1346.480098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773478
iter 20 value 1352.515056
final value 1346.616830
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.925922
iter 20 value 1351.243375
final value 1345.761898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738243
iter 20 value 1352.569590
final value 1346.616550
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724531
iter 20 value 1352.596636
final value 1346.612661
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.374982
iter 20 value 1352.408734
final value 1346.330664
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.762433
iter 20 value 1352.491135
final value 1346.615684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.511716
iter 20 value 1352.431097
final value 1346.485303
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759894
iter 20 value 1352.548568
final value 1346.617102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744779
iter 20 value 1352.615629
final value 1346.616502
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.642774
iter 20 value 1352.455695
final value 1346.567697
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760972
iter 20 value 1352.560741
final value 1346.616911
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766369
iter 20 value 1352.534854
final value 1346.616849
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.780861
iter 20 value 1352.492162
final value 1346.616460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627805
iter 20 value 1352.406178
final value 1346.564025
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.714264
iter 20 value 1352.653262
final value 1346.606294
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736909
iter 20 value 1352.602523
final value 1346.615929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750172
iter 20 value 1352.535897
final value 1346.612579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756248
iter 20 value 1352.532326
final value 1346.616996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.770354
iter 20 value 1349.566613
final value 1344.178462
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739602
iter 20 value 1352.506806
final value 1346.615935
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755041
iter 20 value 1352.543587
final value 1346.617114
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748265
iter 20 value 1352.580011
final value 1346.616830
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724113
iter 20 value 1352.555787
final value 1346.614970
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.658004
iter 20 value 1353.415408
final value 1346.579546
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747066
iter 20 value 1352.601280
final value 1346.617029
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739948
iter 20 value 1352.623375
final value 1346.614492
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716418
iter 20 value 1352.430455
final value 1346.613875
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712614
iter 20 value 1352.615385
final value 1346.606947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760595
iter 20 value 1352.517420
final value 1346.617098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733685
iter 20 value 1352.529301
final value 1346.616912
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.642664
iter 20 value 1352.431385
final value 1346.557606
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710076
iter 20 value 1352.557721
final value 1346.609107
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.694706
iter 20 value 1352.246959
final value 1346.603772
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696893
iter 20 value 1352.587116
final value 1346.605018
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736979
iter 20 value 1352.590049
final value 1346.617138
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.464105
iter 20 value 1350.405547
final value 1345.407613
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758442
iter 20 value 1352.546668
final value 1346.617063
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741439
iter 20 value 1352.586134
final value 1346.614348
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737186
iter 20 value 1352.591745
final value 1346.615194
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755639
iter 20 value 1352.492716
final value 1346.616950
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.593668
iter 20 value 1352.668264
final value 1346.541331
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.686947
iter 20 value 1353.226131
final value 1346.593145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.484505
iter 20 value 1352.238356
final value 1346.441683
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695317
iter 20 value 1352.490096
final value 1346.606493
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712367
iter 20 value 1352.491551
final value 1346.611043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730180
iter 20 value 1352.605401
final value 1346.612431
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732534
iter 20 value 1352.535885
final value 1346.613373
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749619
iter 20 value 1352.522981
final value 1346.616902
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713060
iter 20 value 1352.522096
final value 1346.607567
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.612901
iter 20 value 1352.350780
final value 1346.555497
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.724823
iter 20 value 1352.512820
final value 1346.616526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740262
iter 20 value 1352.560820
final value 1346.617100
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759496
iter 20 value 1352.528998
final value 1346.617134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682924
iter 20 value 1352.623339
final value 1346.590868
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745303
iter 20 value 1352.525906
final value 1346.617084
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769298
iter 20 value 1352.490164
final value 1346.616576
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754183
iter 20 value 1352.575090
final value 1346.617066
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720315
iter 20 value 1352.533686
final value 1346.606805
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760019
iter 20 value 1352.595791
final value 1346.616288
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.696828
iter 20 value 1352.539246
final value 1346.610837
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762413
iter 20 value 1352.506435
final value 1346.616774
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717784
iter 20 value 1352.506730
final value 1346.612991
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.468017
iter 20 value 1352.466638
final value 1346.481643
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.554024
iter 20 value 1352.047778
final value 1346.473864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713070
iter 20 value 1352.609299
final value 1346.611341
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719932
iter 20 value 1352.617299
final value 1346.605789
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754104
iter 20 value 1352.583269
final value 1346.616435
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756715
iter 20 value 1352.544918
final value 1346.616955
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.692166
iter 20 value 1352.666605
final value 1346.600146
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740789
iter 20 value 1352.543559
final value 1346.616727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764436
iter 20 value 1352.561220
final value 1346.616929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608320
iter 20 value 1352.614653
final value 1346.557453
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.670533
iter 20 value 1352.457373
final value 1346.587657
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744842
iter 20 value 1352.548779
final value 1346.617030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757965
iter 20 value 1352.563935
final value 1346.616937
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723467
iter 20 value 1352.532485
final value 1346.615235
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610407
iter 20 value 1353.275382
final value 1346.551873
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.750754
iter 20 value 1352.563137
final value 1346.616476
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665178
iter 20 value 1352.303540
final value 1346.582047
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.777873
iter 20 value 1352.514282
final value 1346.616900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756277
iter 20 value 1352.537130
final value 1346.617102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.816055
iter 20 value 1350.452380
final value 1345.484052
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714734
iter 20 value 1352.549047
final value 1346.615690
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757268
iter 20 value 1352.548789
final value 1346.617102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658916
iter 20 value 1352.519724
final value 1346.580033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701286
iter 20 value 1352.652063
final value 1346.605798
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.746520
iter 20 value 1352.485349
final value 1346.616233
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750273
iter 20 value 1352.646358
final value 1346.617064
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721115
iter 20 value 1352.537831
final value 1346.613833
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769446
iter 20 value 1352.504923
final value 1346.617104
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758147
iter 20 value 1352.537594
final value 1346.615863
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.434521
iter 20 value 1350.831936
final value 1345.284678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743560
iter 20 value 1352.585809
final value 1346.615349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710984
iter 20 value 1352.572227
final value 1346.615478
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752392
iter 20 value 1352.597424
final value 1346.616894
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.734682
iter 20 value 1352.573227
final value 1346.616824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604957
iter 20 value 1352.355435
final value 1346.552008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737511
iter 20 value 1352.550748
final value 1346.616332
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765910
iter 20 value 1352.571647
final value 1346.616410
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756349
iter 20 value 1352.583548
final value 1346.616786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754499
iter 20 value 1352.570904
final value 1346.617020
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763938
iter 20 value 1352.567153
final value 1346.616035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.483294
iter 20 value 1352.493595
final value 1346.478258
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769130
iter 20 value 1352.517897
final value 1346.616663
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.169795
iter 20 value 1351.953478
final value 1346.224087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748210
iter 20 value 1352.577230
final value 1346.616758
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778942
iter 20 value 1352.518140
final value 1346.616386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746088
iter 20 value 1352.570175
final value 1346.617041
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679777
iter 20 value 1352.555636
final value 1346.603746
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675906
iter 20 value 1352.533925
final value 1346.591695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666223
iter 20 value 1352.681491
final value 1346.583135
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722274
iter 20 value 1352.577773
final value 1346.614463
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738545
iter 20 value 1352.534611
final value 1346.616510
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.722524
iter 20 value 1352.605755
final value 1346.615677
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734613
iter 20 value 1352.604164
final value 1346.612956
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746115
iter 20 value 1352.590489
final value 1346.616896
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.449253
iter 20 value 1352.397359
final value 1346.446147
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741442
iter 20 value 1352.601110
final value 1346.617105
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739646
iter 20 value 1352.582667
final value 1346.616995
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.661726
iter 20 value 1350.359403
final value 1344.308488
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747108
iter 20 value 1352.587760
final value 1346.616293
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717355
iter 20 value 1352.579836
final value 1346.611655
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.058115
iter 20 value 1351.406840
final value 1345.955903
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693954
iter 20 value 1352.128369
final value 1346.598243
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.496780
iter 20 value 1351.201442
final value 1346.405410
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757570
iter 20 value 1352.575575
final value 1346.617045
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724018
iter 20 value 1352.553198
final value 1346.613608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739028
iter 20 value 1352.628156
final value 1346.616608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750194
iter 20 value 1352.574927
final value 1346.616536
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664016
iter 20 value 1352.477066
final value 1346.568699
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765111
iter 20 value 1352.560485
final value 1346.616901
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.765211
iter 20 value 1352.534197
final value 1346.610602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651350
iter 20 value 1352.701149
final value 1346.565954
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.880500
iter 20 value 1350.882777
final value 1345.670717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706371
iter 20 value 1352.612037
final value 1346.613085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763222
iter 20 value 1352.532484
final value 1346.616077
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738021
iter 20 value 1352.669747
final value 1346.613299
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.614921
iter 20 value 1351.046685
final value 1345.372362
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744519
iter 20 value 1352.536315
final value 1346.616126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749894
iter 20 value 1352.526983
final value 1346.616347
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.564595
iter 20 value 1352.083030
final value 1346.518129
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.329658
iter 20 value 1352.307645
final value 1346.351219
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742216
iter 20 value 1352.567984
final value 1346.616886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736621
iter 20 value 1352.558450
final value 1346.613512
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743021
iter 20 value 1352.563913
final value 1346.615775
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756402
iter 20 value 1352.514219
final value 1346.617022
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741836
iter 20 value 1352.637815
final value 1346.616949
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.300103
iter 20 value 1352.233178
final value 1346.295211
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691336
iter 20 value 1352.581020
final value 1346.603137
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.759064
iter 20 value 1352.550925
final value 1346.617131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742639
iter 20 value 1352.543787
final value 1346.616860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.267914
iter 20 value 1351.822511
final value 1346.214217
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742261
iter 20 value 1352.549330
final value 1346.617069
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759929
iter 20 value 1352.490113
final value 1346.616839
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763358
iter 20 value 1352.504793
final value 1346.616731
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756125
iter 20 value 1352.531161
final value 1346.616710
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769220
iter 20 value 1352.522833
final value 1346.616845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773029
iter 20 value 1352.556484
final value 1346.616784
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.688791
iter 20 value 1352.513988
final value 1346.598624
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.921866
iter 20 value 1351.638302
final value 1345.730644
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.503084
iter 20 value 1352.234248
final value 1346.473264
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732695
iter 20 value 1352.527683
final value 1346.613154
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718792
iter 20 value 1352.531566
final value 1346.605740
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582080
iter 20 value 1352.794017
final value 1346.533883
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758461
iter 20 value 1352.576208
final value 1346.617056
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775578
iter 20 value 1352.501974
final value 1346.617034
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740274
iter 20 value 1352.540051
final value 1346.616378
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.681095
iter 20 value 1352.511674
final value 1346.595416
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.536026
iter 20 value 1352.446136
final value 1346.492757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757290
iter 20 value 1352.531358
final value 1346.617087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773401
iter 20 value 1352.496090
final value 1346.616922
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721099
iter 20 value 1352.497845
final value 1346.608700
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744133
iter 20 value 1352.530144
final value 1346.616082
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748549
iter 20 value 1352.589790
final value 1346.617109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602034
iter 20 value 1353.402550
final value 1346.534677
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768829
iter 20 value 1352.536293
final value 1346.617132
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.695626
iter 20 value 1352.626889
final value 1346.597868
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747913
iter 20 value 1352.565554
final value 1346.617061
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740099
iter 20 value 1352.612248
final value 1346.616331
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747569
iter 20 value 1352.590390
final value 1346.616466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740742
iter 20 value 1352.559349
final value 1346.614363
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.973343
iter 20 value 1351.686174
final value 1345.885690
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750916
iter 20 value 1352.536888
final value 1346.617130
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760850
iter 20 value 1352.545589
final value 1346.617091
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750103
iter 20 value 1352.526891
final value 1346.616767
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.663598
iter 20 value 1352.764412
final value 1346.593403
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724730
iter 20 value 1352.528193
final value 1346.613333
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758402
iter 20 value 1352.484163
final value 1346.613588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576909
iter 20 value 1352.616829
final value 1346.525806
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.151793
iter 20 value 1351.766247
final value 1346.095490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740160
iter 20 value 1352.577303
final value 1346.615656
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762908
iter 20 value 1352.555059
final value 1346.616971
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.036929
iter 20 value 1351.319740
final value 1346.119420
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687023
iter 20 value 1352.497720
final value 1346.590665
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.736984
iter 20 value 1352.626212
final value 1346.616797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757922
iter 20 value 1352.534721
final value 1346.617067
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661428
iter 20 value 1352.652198
final value 1346.581620
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771919
iter 20 value 1352.538750
final value 1346.616814
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712189
iter 20 value 1352.570791
final value 1346.605347
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751619
iter 20 value 1352.606796
final value 1346.616740
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680916
iter 20 value 1352.477246
final value 1346.597794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770389
iter 20 value 1352.511119
final value 1346.617068
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741484
iter 20 value 1352.572252
final value 1346.613327
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.681714
iter 20 value 1352.454421
final value 1346.592078
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756951
iter 20 value 1352.521581
final value 1346.616898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731203
iter 20 value 1352.543800
final value 1346.616974
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739204
iter 20 value 1352.473068
final value 1346.611549
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769423
iter 20 value 1352.531223
final value 1346.616893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747909
iter 20 value 1352.548497
final value 1346.617121
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747928
iter 20 value 1352.573482
final value 1346.615996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.902114
iter 20 value 1348.726550
final value 1343.558078
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761326
iter 20 value 1352.560364
final value 1346.614372
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.068379
iter 20 value 1351.615056
final value 1346.095691
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743477
iter 20 value 1352.612529
final value 1346.616101
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741858
iter 20 value 1352.550244
final value 1346.616917
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764982
iter 20 value 1352.534752
final value 1346.617124
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.726687
iter 20 value 1352.518253
final value 1346.612464
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738126
iter 20 value 1352.555512
final value 1346.614909
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730119
iter 20 value 1352.586392
final value 1346.614631
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.341842
iter 20 value 1349.143182
final value 1343.651999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719635
iter 20 value 1352.528371
final value 1346.616500
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.723420
iter 20 value 1352.553331
final value 1346.615008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.567505
iter 20 value 1350.932345
final value 1345.352885
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761766
iter 20 value 1352.551428
final value 1346.617101
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700900
iter 20 value 1352.521177
final value 1346.608864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707741
iter 20 value 1352.496525
final value 1346.608673
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740145
iter 20 value 1352.529135
final value 1346.616793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649748
iter 20 value 1352.449658
final value 1346.581980
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717918
iter 20 value 1352.607422
final value 1346.615275
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750953
iter 20 value 1352.536607
final value 1346.616984
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.763173
iter 20 value 1352.512096
final value 1346.616947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732653
iter 20 value 1352.504014
final value 1346.611221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730247
iter 20 value 1352.544073
final value 1346.615422
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712506
iter 20 value 1352.567743
final value 1346.617126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723739
iter 20 value 1352.612315
final value 1346.614794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719993
iter 20 value 1352.667476
final value 1346.610641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754641
iter 20 value 1352.550491
final value 1346.614341
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765191
iter 20 value 1352.513829
final value 1346.616824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735688
iter 20 value 1352.580353
final value 1346.616953
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.735187
iter 20 value 1352.542060
final value 1346.613876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751631
iter 20 value 1352.564335
final value 1346.617065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756221
iter 20 value 1352.617490
final value 1346.614898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.591399
iter 20 value 1353.274856
final value 1346.520067
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.655929
iter 20 value 1352.972083
final value 1346.578554
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711626
iter 20 value 1352.599743
final value 1346.607819
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707616
iter 20 value 1352.427970
final value 1346.611360
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.011157
iter 20 value 1351.244236
final value 1345.841978
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744085
iter 20 value 1352.546199
final value 1346.615794
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.751831
iter 20 value 1352.522094
final value 1346.616756
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658166
iter 20 value 1352.250601
final value 1346.588947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667854
iter 20 value 1352.679313
final value 1346.588231
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753345
iter 20 value 1352.578654
final value 1346.617145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752300
iter 20 value 1352.586254
final value 1346.616245
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746896
iter 20 value 1352.507971
final value 1346.616390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760859
iter 20 value 1352.563987
final value 1346.616717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.615045
iter 20 value 1352.387580
final value 1346.547859
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649760
iter 20 value 1352.510374
final value 1346.587523
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.764406
iter 20 value 1352.570602
final value 1346.617124
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743878
iter 20 value 1352.566093
final value 1346.616644
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757363
iter 20 value 1352.591667
final value 1346.616098
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627598
iter 20 value 1352.562391
final value 1346.563988
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727476
iter 20 value 1352.550590
final value 1346.617104
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761532
iter 20 value 1352.500113
final value 1346.617019
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741571
iter 20 value 1352.521760
final value 1346.616975
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.621289
iter 20 value 1352.113646
final value 1346.541490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731593
iter 20 value 1352.559090
final value 1346.613777
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.717853
iter 20 value 1352.584879
final value 1346.614467
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750415
iter 20 value 1352.531633
final value 1346.616829
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694191
iter 20 value 1352.504664
final value 1346.603509
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757599
iter 20 value 1352.573183
final value 1346.617093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729543
iter 20 value 1352.570279
final value 1346.615462
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736111
iter 20 value 1352.519260
final value 1346.617133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758146
iter 20 value 1352.564954
final value 1346.616635
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756446
iter 20 value 1352.558636
final value 1346.616566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761825
iter 20 value 1352.503309
final value 1346.615918
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.637981
iter 20 value 1351.825481
final value 1346.569725
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732249
iter 20 value 1352.624170
final value 1346.609867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.518600
iter 20 value 1351.058883
final value 1345.309609
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715994
iter 20 value 1352.664380
final value 1346.610422
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748258
iter 20 value 1352.584167
final value 1346.617139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.778018
iter 20 value 1352.534203
final value 1346.616763
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758979
iter 20 value 1352.582247
final value 1346.616948
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766637
iter 20 value 1352.528279
final value 1346.617012
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.450572
iter 20 value 1352.156448
final value 1346.440433
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.754550
iter 20 value 1352.564001
final value 1346.616931
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750348
iter 20 value 1352.617981
final value 1346.616875
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715138
iter 20 value 1352.572664
final value 1346.615184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756665
iter 20 value 1352.549861
final value 1346.617071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755402
iter 20 value 1352.576902
final value 1346.616897
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.303868
iter 20 value 1351.842582
final value 1346.289406
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766446
iter 20 value 1352.510445
final value 1346.616695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747719
iter 20 value 1352.553585
final value 1346.616566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765334
iter 20 value 1352.546855
final value 1346.616819
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.718035
iter 20 value 1352.605679
final value 1346.615993
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.303960
iter 20 value 1352.036419
final value 1346.330315
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739259
iter 20 value 1352.563968
final value 1346.615793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.769739
iter 20 value 1352.528206
final value 1346.615941
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730734
iter 20 value 1352.522983
final value 1346.610549
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755663
iter 20 value 1352.550546
final value 1346.617122
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732030
iter 20 value 1352.546851
final value 1346.615200
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759172
iter 20 value 1352.552391
final value 1346.617120
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751378
iter 20 value 1352.564171
final value 1346.617127
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.994245
iter 20 value 1351.258315
final value 1345.559724
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.447152
iter 20 value 1352.462429
final value 1346.408176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745351
iter 20 value 1352.543561
final value 1346.616314
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745634
iter 20 value 1352.539633
final value 1346.617058
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753396
iter 20 value 1352.564751
final value 1346.617137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.764214
iter 20 value 1352.516336
final value 1346.616603
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.781346
iter 20 value 1352.494318
final value 1346.616955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691094
iter 20 value 1352.533158
final value 1346.601771
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743012
iter 20 value 1352.530728
final value 1346.616433
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.749872
iter 20 value 1352.555226
final value 1346.614448
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743477
iter 20 value 1352.481261
final value 1346.614035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682303
iter 20 value 1352.442379
final value 1346.587777
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743431
iter 20 value 1352.554032
final value 1346.617008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.742146
iter 20 value 1352.643267
final value 1346.616491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.088116
iter 20 value 1352.673270
final value 1345.973277
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759826
iter 20 value 1352.529333
final value 1346.616796
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.402004
iter 20 value 1352.115626
final value 1346.397822
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.558917
iter 20 value 1352.677812
final value 1346.507239
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.757098
iter 20 value 1352.546464
final value 1346.616856
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692555
iter 20 value 1352.476240
final value 1346.603346
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692670
iter 20 value 1352.685889
final value 1346.604891
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741599
iter 20 value 1352.556184
final value 1346.616901
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.924670
iter 20 value 1350.081099
final value 1344.771425
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689236
iter 20 value 1353.075276
final value 1346.582844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759702
iter 20 value 1352.542913
final value 1346.617092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749083
iter 20 value 1352.553252
final value 1346.615930
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704531
iter 20 value 1352.618454
final value 1346.607413
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.654511
iter 20 value 1353.565417
final value 1346.576222
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666886
iter 20 value 1353.619979
final value 1346.582467
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744859
iter 20 value 1352.639431
final value 1346.616932
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741274
iter 20 value 1352.491427
final value 1346.616794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.380133
iter 20 value 1352.627500
final value 1346.393829
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737542
iter 20 value 1352.540025
final value 1346.616914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714010
iter 20 value 1352.969746
final value 1346.584450
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756078
iter 20 value 1352.522905
final value 1346.616862
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.636885
iter 20 value 1352.549166
final value 1346.583131
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.364414
iter 20 value 1352.286402
final value 1346.281805
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660051
iter 20 value 1352.459512
final value 1346.577446
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745043
iter 20 value 1352.531700
final value 1346.617109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756862
iter 20 value 1352.523366
final value 1346.617039
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.196423
iter 20 value 1352.245508
final value 1346.245283
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739840
iter 20 value 1352.549743
final value 1346.616503
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734859
iter 20 value 1352.588224
final value 1346.614324
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724972
iter 20 value 1352.554004
final value 1346.616475
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746993
iter 20 value 1352.530653
final value 1346.615949
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.760316
iter 20 value 1352.554678
final value 1346.617078
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.748598
iter 20 value 1351.579339
final value 1345.579045
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.170511
iter 20 value 1352.491520
final value 1346.181883
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.252853
iter 20 value 1352.043542
final value 1346.229304
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737287
iter 20 value 1352.464065
final value 1346.610947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727965
iter 20 value 1352.596391
final value 1346.612922
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746803
iter 20 value 1352.599581
final value 1346.613756
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.566603
iter 20 value 1352.467209
final value 1346.545502
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751049
iter 20 value 1352.543981
final value 1346.616965
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.714545
iter 20 value 1352.567458
final value 1346.615283
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732802
iter 20 value 1352.618159
final value 1346.616989
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.538366
iter 20 value 1352.464831
final value 1346.473781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.107377
iter 20 value 1352.005851
final value 1346.249631
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614695
iter 20 value 1352.430378
final value 1346.575820
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684400
iter 20 value 1352.510759
final value 1346.588038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734015
iter 20 value 1352.573230
final value 1346.613181
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700651
iter 20 value 1352.541595
final value 1346.612448
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725546
iter 20 value 1352.536746
final value 1346.614352
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.751860
iter 20 value 1352.555981
final value 1346.616697
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750322
iter 20 value 1352.547430
final value 1346.616334
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.626268
iter 20 value 1352.354984
final value 1346.535469
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722900
iter 20 value 1352.531049
final value 1346.613192
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.762763
iter 20 value 1352.502609
final value 1346.617060
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753321
iter 20 value 1352.582412
final value 1346.611842
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693007
iter 20 value 1352.486739
final value 1346.594112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.267260
iter 20 value 1348.384298
final value 1342.516792
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.462046
iter 20 value 1352.419614
final value 1346.490295
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.507668
iter 20 value 1352.523968
final value 1346.456793
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.123426
iter 20 value 1348.210591
final value 1342.443644
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.753226
iter 20 value 1352.536810
final value 1346.617131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.774934
iter 20 value 1352.500878
final value 1346.616591
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.607402
iter 20 value 1352.236337
final value 1346.530820
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.554997
iter 20 value 1352.478027
final value 1346.500302
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.776295
iter 20 value 1352.509673
final value 1346.616614
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748100
iter 20 value 1352.547769
final value 1346.616349
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744684
iter 20 value 1352.545359
final value 1346.615374
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.744600
iter 20 value 1352.495897
final value 1346.616272
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661781
iter 20 value 1352.554025
final value 1346.595977
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.736754
iter 20 value 1351.697199
final value 1345.601583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734991
iter 20 value 1352.582227
final value 1346.616565
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765260
iter 20 value 1352.536977
final value 1346.617109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729197
iter 20 value 1352.577301
final value 1346.615125
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752001
iter 20 value 1352.552871
final value 1346.616940
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743420
iter 20 value 1352.572369
final value 1346.616460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.371440
iter 20 value 1350.945164
final value 1345.024246
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.512905
iter 20 value 1352.272313
final value 1346.462579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.408533
iter 20 value 1350.449498
final value 1345.161392
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748100
iter 20 value 1352.620806
final value 1346.616384
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755627
iter 20 value 1352.544549
final value 1346.617114
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728998
iter 20 value 1352.535003
final value 1346.616707
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765570
iter 20 value 1352.517878
final value 1346.616556
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.751353
iter 20 value 1352.546353
final value 1346.617093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.760650
iter 20 value 1352.564590
final value 1346.616893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761605
iter 20 value 1352.554327
final value 1346.616002
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.713638
iter 20 value 1352.548267
final value 1346.606779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.749419
iter 20 value 1352.599221
final value 1346.617081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740881
iter 20 value 1352.617652
final value 1346.613133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747719
iter 20 value 1352.567835
final value 1346.616658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716852
iter 20 value 1352.523778
final value 1346.607390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767508
iter 20 value 1352.546448
final value 1346.617106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.729448
iter 20 value 1352.572765
final value 1346.616953
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708141
iter 20 value 1352.745374
final value 1346.606619
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681540
iter 20 value 1352.496540
final value 1346.597254
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.742263
iter 20 value 1352.590090
final value 1346.616761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741022
iter 20 value 1352.547737
final value 1346.616440
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761969
iter 20 value 1352.519529
final value 1346.616214
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765007
iter 20 value 1352.506514
final value 1346.616784
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.008171
iter 20 value 1350.891874
final value 1344.699336
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601609
iter 20 value 1352.297693
final value 1346.536668
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.759074
iter 20 value 1352.548651
final value 1346.616716
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.026884
iter 20 value 1351.883720
final value 1345.980664
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.291536
iter 20 value 1352.475029
final value 1346.294788
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.760044
iter 20 value 1352.530646
final value 1346.617131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.513058
iter 20 value 1352.172255
final value 1346.478573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738191
iter 20 value 1352.547818
final value 1346.615690
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723322
iter 20 value 1352.571394
final value 1346.607722
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.513846
iter 20 value 1352.014287
final value 1346.513352
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.750749
iter 20 value 1352.500390
final value 1346.616977
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.816865
iter 20 value 1351.442512
final value 1345.799667
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.424146
iter 20 value 1350.382481
final value 1343.557654
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678381
iter 20 value 1352.427060
final value 1346.604787
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.763427
iter 20 value 1352.576638
final value 1346.616729
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.766069
iter 20 value 1352.558204
final value 1346.616942
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608080
iter 20 value 1352.345394
final value 1346.463820
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.287344
iter 20 value 1352.004900
final value 1346.178981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744947
iter 20 value 1352.720448
final value 1346.553727
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.827955
iter 20 value 1352.095845
final value 1345.510396
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.086436
iter 20 value 1351.687461
final value 1345.908769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.382791
iter 20 value 1352.425742
final value 1346.302933
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.354940
iter 20 value 1351.253375
final value 1345.173238
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.373103
iter 20 value 1352.163093
final value 1346.230490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552533
iter 20 value 1352.377939
final value 1346.480481
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702232
iter 20 value 1352.528388
final value 1346.574507
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660670
iter 20 value 1352.459981
final value 1346.546518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665973
iter 20 value 1352.581380
final value 1346.572498
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.387984
iter 20 value 1352.292626
final value 1346.281204
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.779147
iter 20 value 1352.559085
final value 1346.505196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.559987
iter 20 value 1352.470475
final value 1346.396636
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.405395
iter 20 value 1351.659095
final value 1345.309814
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.727783
iter 20 value 1352.553525
final value 1346.590271
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.391865
iter 20 value 1352.167753
final value 1346.320867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704171
iter 20 value 1352.572538
final value 1346.583464
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719649
iter 20 value 1352.536331
final value 1346.594287
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.491382
iter 20 value 1352.386653
final value 1346.341107
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.224980
iter 20 value 1352.106853
final value 1346.162068
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.497560
iter 20 value 1352.126874
final value 1346.338087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.301366
iter 20 value 1352.122892
final value 1346.222386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.071125
iter 20 value 1352.034187
final value 1346.092271
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.258464
iter 20 value 1352.257217
final value 1346.199284
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.249000
iter 20 value 1351.856266
final value 1346.114085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.402392
iter 20 value 1352.065448
final value 1346.266629
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.418630
iter 20 value 1352.303125
final value 1346.318413
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630144
iter 20 value 1352.540029
final value 1346.540990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715189
iter 20 value 1352.541537
final value 1346.588498
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.385450
iter 20 value 1352.214064
final value 1346.296947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.311555
iter 20 value 1352.174245
final value 1346.311800
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.996712
iter 20 value 1351.700040
final value 1345.954907
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.572799
iter 20 value 1352.402832
final value 1346.484323
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.570492
iter 20 value 1352.568154
final value 1346.453719
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.940811
iter 20 value 1351.860970
final value 1345.773522
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.428358
iter 20 value 1352.314989
final value 1346.373810
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624222
iter 20 value 1352.435223
final value 1346.526134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674355
iter 20 value 1352.560734
final value 1346.557175
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.488612
iter 20 value 1352.409648
final value 1346.394086
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.447460
iter 20 value 1352.388575
final value 1346.349746
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.583080
iter 20 value 1352.358937
final value 1346.482274
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.522401
iter 20 value 1350.788559
final value 1345.314286
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.497051
iter 20 value 1352.394706
final value 1346.349951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.503620
iter 20 value 1351.963798
final value 1346.384857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644006
iter 20 value 1352.070357
final value 1346.445638
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.789576
iter 20 value 1351.794489
final value 1346.365446
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.430294
iter 20 value 1350.761460
final value 1345.396161
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.311463
iter 20 value 1352.215128
final value 1346.175003
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.492938
iter 20 value 1352.179051
final value 1346.358526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.368935
iter 20 value 1352.355475
final value 1346.250393
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.348095
iter 20 value 1352.150958
final value 1346.279318
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649789
iter 20 value 1352.564860
final value 1346.559185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623583
iter 20 value 1352.524669
final value 1346.540949
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683558
iter 20 value 1352.482479
final value 1346.560221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.107484
iter 20 value 1352.175128
final value 1346.168391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.226619
iter 20 value 1352.125426
final value 1346.119339
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.967804
iter 20 value 1351.896629
final value 1345.858712
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.421130
iter 20 value 1351.931874
final value 1346.260512
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.449416
iter 20 value 1352.149006
final value 1346.312570
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1374.940229
iter 20 value 1351.256360
final value 1344.603821
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.506352
iter 20 value 1352.353620
final value 1346.382602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.550043
iter 20 value 1352.395311
final value 1346.429347
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.996494
iter 20 value 1351.322332
final value 1345.954882
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.351506
iter 20 value 1351.607701
final value 1346.298441
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504610
iter 20 value 1352.425532
final value 1346.326535
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654490
iter 20 value 1352.488346
final value 1346.514122
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565014
iter 20 value 1352.213450
final value 1346.395261
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.391682
iter 20 value 1351.765911
final value 1346.201005
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.574706
iter 20 value 1352.432431
final value 1346.463574
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.065756
iter 20 value 1352.133655
final value 1346.009541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.571912
iter 20 value 1350.875820
final value 1345.549671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.992694
iter 20 value 1352.041700
final value 1345.888265
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.864418
iter 20 value 1351.558919
final value 1345.682557
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684597
iter 20 value 1352.538365
final value 1346.572370
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606902
iter 20 value 1352.403139
final value 1346.518843
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709476
iter 20 value 1352.536946
final value 1346.579281
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682795
iter 20 value 1352.383948
final value 1346.469047
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.649484
iter 20 value 1352.525768
final value 1346.540691
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578721
iter 20 value 1352.446601
final value 1346.530166
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669931
iter 20 value 1352.590128
final value 1346.544236
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664566
iter 20 value 1352.570834
final value 1346.560139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632905
iter 20 value 1352.282706
final value 1346.522596
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662435
iter 20 value 1352.549949
final value 1346.551491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505973
iter 20 value 1352.067143
final value 1346.364046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661691
iter 20 value 1352.591069
final value 1346.590527
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658345
iter 20 value 1352.561698
final value 1346.529981
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.632474
iter 20 value 1352.535402
final value 1346.494823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.458333
iter 20 value 1352.347774
final value 1346.428322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556347
iter 20 value 1352.420950
final value 1346.452846
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.838230
iter 20 value 1351.809435
final value 1345.803198
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.548586
iter 20 value 1352.222931
final value 1346.428947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653484
iter 20 value 1352.006251
final value 1346.518797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730894
iter 20 value 1352.567741
final value 1346.543893
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.559465
iter 20 value 1352.536516
final value 1346.304884
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.010434
iter 20 value 1351.062425
final value 1344.964503
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.635368
iter 20 value 1352.487735
final value 1346.454496
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.490524
iter 20 value 1352.429617
final value 1346.349570
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.815374
iter 20 value 1351.113134
final value 1345.636058
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682629
iter 20 value 1352.518506
final value 1346.487750
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.756873
iter 20 value 1352.501705
final value 1346.556160
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669704
iter 20 value 1352.238814
final value 1346.530190
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360006
iter 20 value 1352.201953
final value 1346.329377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.557237
iter 20 value 1352.461552
final value 1346.441194
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.980457
iter 20 value 1351.242508
final value 1345.986971
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.276407
iter 20 value 1352.138279
final value 1346.163158
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.289535
iter 20 value 1351.392778
final value 1345.259461
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.192653
iter 20 value 1351.790064
final value 1345.967641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.044440
iter 20 value 1352.038978
final value 1345.980449
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.119823
iter 20 value 1352.336299
final value 1346.043514
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637506
iter 20 value 1352.544542
final value 1346.461853
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640396
iter 20 value 1352.446004
final value 1346.343414
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734882
iter 20 value 1352.591143
final value 1346.567361
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.795196
iter 20 value 1352.366187
final value 1346.499349
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.921399
iter 20 value 1352.120832
final value 1345.521112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.785862
iter 20 value 1352.980815
final value 1346.487709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.408538
iter 20 value 1351.562989
final value 1345.298700
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.471917
iter 20 value 1351.457894
final value 1345.293043
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.847573
iter 20 value 1351.625518
final value 1345.815686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.093688
iter 20 value 1352.531297
final value 1345.523986
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.968438
iter 20 value 1351.825886
final value 1345.857072
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.974583
iter 20 value 1351.790633
final value 1346.068863
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.297810
iter 20 value 1351.871735
final value 1346.147036
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.508727
iter 20 value 1352.149896
final value 1346.375073
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.158781
iter 20 value 1350.296847
final value 1344.822967
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685443
iter 20 value 1352.342919
final value 1346.527774
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.413223
iter 20 value 1349.286266
final value 1343.904189
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.655310
iter 20 value 1352.535744
final value 1346.544234
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.998310
iter 20 value 1351.737308
final value 1345.975335
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606812
iter 20 value 1352.504250
final value 1346.493923
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.866611
iter 20 value 1351.125498
final value 1345.797071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.182438
iter 20 value 1352.084600
final value 1346.210035
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.546282
iter 20 value 1352.310777
final value 1346.441473
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717974
iter 20 value 1352.670391
final value 1346.600439
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717603
iter 20 value 1352.644926
final value 1346.593395
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.571782
iter 20 value 1352.292645
final value 1346.481537
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.557637
iter 20 value 1352.395724
final value 1346.457187
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693090
iter 20 value 1352.573348
final value 1346.576841
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.179865
iter 20 value 1351.520235
final value 1344.361709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640645
iter 20 value 1352.520801
final value 1346.525578
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727488
iter 20 value 1352.556991
final value 1346.583046
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.738793
iter 20 value 1352.617718
final value 1346.584212
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747669
iter 20 value 1352.625913
final value 1346.600801
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.075794
iter 20 value 1351.392113
final value 1344.594597
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.075794
iter 20 value 1351.392113
final value 1344.594597
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690277
iter 20 value 1352.607529
final value 1346.577451
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710320
iter 20 value 1352.637947
final value 1346.607030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653172
iter 20 value 1352.572115
final value 1346.533172
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.360510
iter 20 value 1352.322476
final value 1346.296783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690207
iter 20 value 1352.557228
final value 1346.568342
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.683934
iter 20 value 1352.599282
final value 1346.569552
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704728
iter 20 value 1352.631738
final value 1346.597176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.546881
iter 20 value 1350.196300
final value 1344.027106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690136
iter 20 value 1352.613419
final value 1346.580938
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625524
iter 20 value 1352.478436
final value 1346.511731
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.522435
iter 20 value 1352.313893
final value 1346.442111
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697390
iter 20 value 1352.611621
final value 1346.597428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719146
iter 20 value 1352.593945
final value 1346.590503
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.153100
iter 20 value 1351.412443
final value 1344.543233
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.688156
iter 20 value 1352.611564
final value 1346.587495
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.680735
iter 20 value 1351.704279
final value 1345.193238
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.358546
iter 20 value 1352.168562
final value 1346.017092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.368612
iter 20 value 1351.730041
final value 1344.717106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.207922
iter 20 value 1352.850524
final value 1345.552823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.208784
iter 20 value 1352.589206
final value 1345.493013
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.223794
iter 20 value 1352.088858
final value 1346.116776
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673059
iter 20 value 1352.572435
final value 1346.565914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.486182
iter 20 value 1352.576306
final value 1346.333587
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.872222
iter 20 value 1351.860830
final value 1346.017226
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677501
iter 20 value 1352.499708
final value 1346.544695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710320
iter 20 value 1352.637947
final value 1346.607030
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712575
iter 20 value 1352.644878
final value 1346.608099
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662932
iter 20 value 1352.588204
final value 1346.541750
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690546
iter 20 value 1352.618484
final value 1346.585251
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.443824
iter 20 value 1351.857338
final value 1344.711978
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.211312
iter 20 value 1351.949240
final value 1345.911770
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679688
iter 20 value 1352.553697
final value 1346.564107
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1374.247504
iter 20 value 1351.055631
final value 1343.622571
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.492851
iter 20 value 1351.976910
final value 1344.782876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.405445
iter 20 value 1353.184008
final value 1345.832127
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.425688
iter 20 value 1352.030629
final value 1344.893667
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717687
iter 20 value 1352.595154
final value 1346.593015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.297697
iter 20 value 1351.962767
final value 1346.177589
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.388389
iter 20 value 1351.935406
final value 1344.743781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.266455
iter 20 value 1351.633730
final value 1344.589608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.606201
iter 20 value 1352.120658
final value 1344.956794
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.714064
iter 20 value 1352.632769
final value 1346.583114
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697363
iter 20 value 1352.618270
final value 1346.571892
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.217203
iter 20 value 1352.065400
final value 1346.156763
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595128
iter 20 value 1352.513709
final value 1346.537391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696912
iter 20 value 1352.603893
final value 1346.569845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.588165
iter 20 value 1352.474128
final value 1346.493707
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628708
iter 20 value 1352.579246
final value 1346.571692
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611003
iter 20 value 1352.512598
final value 1346.523633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631886
iter 20 value 1352.544939
final value 1346.541662
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.255901
iter 20 value 1352.052581
final value 1346.200110
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631886
iter 20 value 1352.544939
final value 1346.541662
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631886
iter 20 value 1352.544939
final value 1346.541662
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.541930
iter 20 value 1352.412620
final value 1346.463430
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637902
iter 20 value 1352.543958
final value 1346.534001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638772
iter 20 value 1352.523472
final value 1346.535649
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.349925
iter 20 value 1352.179149
final value 1346.281112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.462613
iter 20 value 1352.357040
final value 1346.339017
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651873
iter 20 value 1352.582715
final value 1346.536944
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.710201
iter 20 value 1352.554409
final value 1346.571548
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595730
iter 20 value 1352.646001
final value 1346.418454
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.543975
iter 20 value 1352.405729
final value 1346.477390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732783
iter 20 value 1352.684612
final value 1346.598248
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.544832
iter 20 value 1352.516062
final value 1346.467926
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722544
iter 20 value 1352.672511
final value 1346.576001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.426588
iter 20 value 1352.309648
final value 1346.386256
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528572
iter 20 value 1352.386609
final value 1346.416752
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.534632
iter 20 value 1352.523006
final value 1346.418212
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.636551
iter 20 value 1352.617606
final value 1346.567173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696782
iter 20 value 1352.679488
final value 1346.564919
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665364
iter 20 value 1352.563413
final value 1346.531015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.668074
iter 20 value 1351.006559
final value 1344.694247
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.645623
iter 20 value 1352.588914
final value 1346.576379
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637902
iter 20 value 1352.543958
final value 1346.534001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628708
iter 20 value 1352.579246
final value 1346.571692
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.622442
iter 20 value 1352.567334
final value 1346.566461
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616040
iter 20 value 1352.508165
final value 1346.482229
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.909810
iter 20 value 1351.879258
final value 1345.890250
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611543
iter 20 value 1352.542703
final value 1346.551729
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658113
iter 20 value 1352.641319
final value 1346.593611
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654705
iter 20 value 1352.625949
final value 1346.586654
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654656
iter 20 value 1352.625312
final value 1346.587181
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640743
iter 20 value 1352.602257
final value 1346.573322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659801
iter 20 value 1352.566898
final value 1346.534777
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.599659
iter 20 value 1352.535144
final value 1346.526634
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.527794
iter 20 value 1352.488800
final value 1346.521325
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.659801
iter 20 value 1352.566898
final value 1346.534777
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647454
iter 20 value 1352.552615
final value 1346.529328
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712354
iter 20 value 1352.667737
final value 1346.612155
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.483416
iter 20 value 1352.346466
final value 1346.366410
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691683
iter 20 value 1352.665383
final value 1346.601209
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691967
iter 20 value 1352.391118
final value 1346.573561
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.495651
iter 20 value 1352.571427
final value 1346.514994
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715529
iter 20 value 1352.655237
final value 1346.583819
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718595
iter 20 value 1352.585010
final value 1346.602277
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.714759
iter 20 value 1352.695879
final value 1346.600821
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660938
iter 20 value 1352.662342
final value 1346.586151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745667
iter 20 value 1352.663061
final value 1346.613954
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.377602
iter 20 value 1352.280887
final value 1346.415984
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.609402
iter 20 value 1352.475916
final value 1346.490312
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657126
iter 20 value 1352.515018
final value 1346.540518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.508619
iter 20 value 1352.602059
final value 1346.532507
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.470472
iter 20 value 1352.523802
final value 1346.527531
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.615078
iter 20 value 1352.473695
final value 1346.507091
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.289773
iter 20 value 1352.167197
final value 1346.233223
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697356
iter 20 value 1352.585093
final value 1346.586962
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.901414
iter 20 value 1351.848320
final value 1345.893033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.702781
iter 20 value 1352.635808
final value 1346.589200
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738519
iter 20 value 1352.661032
final value 1346.610351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703309
iter 20 value 1352.586818
final value 1346.591521
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.670872
iter 20 value 1352.648667
final value 1346.577215
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.121642
iter 20 value 1350.243114
final value 1343.118204
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.464001
iter 20 value 1352.043099
final value 1346.355271
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.710401
iter 20 value 1352.583523
final value 1346.579871
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.478069
iter 20 value 1352.344196
final value 1346.377801
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.503644
iter 20 value 1352.358109
final value 1346.398553
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.521832
iter 20 value 1352.406530
final value 1346.445662
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704679
iter 20 value 1352.581827
final value 1346.574401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674487
iter 20 value 1352.561132
final value 1346.567601
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687387
iter 20 value 1352.563295
final value 1346.565196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681566
iter 20 value 1352.570679
final value 1346.564459
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.603809
iter 20 value 1352.479753
final value 1346.492135
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.647010
iter 20 value 1352.530508
final value 1346.530248
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637602
iter 20 value 1352.550370
final value 1346.532295
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.486755
iter 20 value 1352.351049
final value 1346.387904
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.592770
iter 20 value 1352.511611
final value 1346.461226
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.686484
iter 20 value 1352.603141
final value 1346.589015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.977157
iter 20 value 1353.536405
final value 1346.515737
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689981
iter 20 value 1352.630823
final value 1346.600042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661924
iter 20 value 1352.576084
final value 1346.561487
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661572
iter 20 value 1352.541588
final value 1346.544768
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.668221
iter 20 value 1352.645981
final value 1346.595132
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.758757
iter 20 value 1351.446265
final value 1345.522242
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.598363
iter 20 value 1352.495456
final value 1346.482037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685297
iter 20 value 1352.518560
final value 1346.566698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646573
iter 20 value 1352.421894
final value 1346.538400
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691695
iter 20 value 1352.628217
final value 1346.597327
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706127
iter 20 value 1352.618999
final value 1346.580236
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691331
iter 20 value 1352.567153
final value 1346.577947
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552585
iter 20 value 1352.438635
final value 1346.478807
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.730982
iter 20 value 1352.717486
final value 1346.609952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.594444
iter 20 value 1352.600030
final value 1346.531518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.562004
iter 20 value 1352.447642
final value 1346.485955
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667611
iter 20 value 1352.593750
final value 1346.581655
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.589880
iter 20 value 1352.563178
final value 1346.510979
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614209
iter 20 value 1352.571442
final value 1346.563973
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.670563
iter 20 value 1352.664689
final value 1346.603886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.501563
iter 20 value 1352.383943
final value 1346.412105
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654512
iter 20 value 1352.570915
final value 1346.582493
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.667923
iter 20 value 1352.516266
final value 1346.557810
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692686
iter 20 value 1352.555521
final value 1346.576484
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721601
iter 20 value 1352.590285
final value 1346.595324
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.432594
iter 20 value 1352.314338
final value 1346.335670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.663192
iter 20 value 1352.668647
final value 1346.597900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688169
iter 20 value 1352.626517
final value 1346.587142
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680464
iter 20 value 1352.678786
final value 1346.601091
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643062
iter 20 value 1352.582938
final value 1346.563396
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739967
iter 20 value 1352.719731
final value 1346.578375
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.564285
iter 20 value 1352.507704
final value 1346.529155
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.626790
iter 20 value 1352.603441
final value 1346.589490
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669986
iter 20 value 1352.655933
final value 1346.591326
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671489
iter 20 value 1352.650321
final value 1346.601357
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733137
iter 20 value 1352.608827
final value 1346.601253
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.433946
iter 20 value 1352.312631
final value 1346.332571
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715907
iter 20 value 1352.639141
final value 1346.606037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.581967
iter 20 value 1351.628616
final value 1345.425705
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635691
iter 20 value 1352.481801
final value 1346.532782
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.723455
iter 20 value 1352.868741
final value 1346.587160
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.605429
iter 20 value 1352.541440
final value 1346.559676
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.337652
iter 20 value 1352.389980
final value 1346.354070
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632153
iter 20 value 1352.582268
final value 1346.566198
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552888
iter 20 value 1352.479873
final value 1346.530858
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.532066
iter 20 value 1352.418460
final value 1346.439097
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628330
iter 20 value 1352.498635
final value 1346.551304
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.579317
iter 20 value 1352.457825
final value 1346.515569
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.592458
iter 20 value 1352.528674
final value 1346.543778
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.651368
iter 20 value 1352.545390
final value 1346.573491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565470
iter 20 value 1352.449257
final value 1346.533468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580249
iter 20 value 1352.480535
final value 1346.502595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608088
iter 20 value 1352.455098
final value 1346.460886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.161853
iter 20 value 1351.504970
final value 1345.100786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752207
iter 20 value 1352.422806
final value 1346.527957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643150
iter 20 value 1352.347126
final value 1346.452322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.575842
iter 20 value 1350.656434
final value 1344.265853
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673053
iter 20 value 1352.499749
final value 1346.501450
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.694856
iter 20 value 1352.545602
final value 1346.562886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556416
iter 20 value 1352.402906
final value 1346.432902
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.949180
iter 20 value 1351.964797
final value 1345.928615
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.510744
iter 20 value 1352.383701
final value 1346.404382
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.766691
iter 20 value 1350.760328
final value 1344.496460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715280
iter 20 value 1352.571618
final value 1346.521738
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.623198
iter 20 value 1351.961972
final value 1345.259699
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709364
iter 20 value 1352.478556
final value 1346.548486
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660135
iter 20 value 1352.528456
final value 1346.557678
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.521046
iter 20 value 1352.438924
final value 1346.450375
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569112
iter 20 value 1352.399389
final value 1346.462579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.639445
iter 20 value 1352.533466
final value 1346.570593
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560486
iter 20 value 1352.386764
final value 1346.481468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697993
iter 20 value 1352.637649
final value 1346.570105
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.552664
iter 20 value 1352.413287
final value 1346.417930
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.540528
iter 20 value 1352.439319
final value 1346.388046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608088
iter 20 value 1352.455098
final value 1346.460886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.709423
iter 20 value 1351.815954
final value 1345.698811
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.055932
iter 20 value 1352.067886
final value 1345.790163
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.508018
iter 20 value 1352.307465
final value 1346.355797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.616545
iter 20 value 1351.634311
final value 1345.380310
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724718
iter 20 value 1352.521037
final value 1346.560333
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.540528
iter 20 value 1352.439319
final value 1346.388046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668425
iter 20 value 1352.573049
final value 1346.534341
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.752207
iter 20 value 1352.422806
final value 1346.527957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.508018
iter 20 value 1352.307465
final value 1346.355797
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.616545
iter 20 value 1351.634311
final value 1345.380310
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.223708
iter 20 value 1352.220781
final value 1345.997884
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685924
iter 20 value 1352.479546
final value 1346.520305
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.257361
iter 20 value 1352.220751
final value 1346.229261
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643150
iter 20 value 1352.347126
final value 1346.452322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.949180
iter 20 value 1351.964797
final value 1345.928615
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618012
iter 20 value 1352.551157
final value 1346.533934
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708935
iter 20 value 1352.566886
final value 1346.598129
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717707
iter 20 value 1352.581593
final value 1346.597762
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.615455
iter 20 value 1352.424892
final value 1346.462852
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.664234
iter 20 value 1352.613058
final value 1346.581773
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675373
iter 20 value 1352.554001
final value 1346.574621
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.554457
iter 20 value 1352.428737
final value 1346.463113
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460646
iter 20 value 1352.308219
final value 1346.439900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659535
iter 20 value 1352.517083
final value 1346.564465
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.348876
iter 20 value 1352.210319
final value 1346.319054
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.662629
iter 20 value 1352.654705
final value 1346.590940
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631689
iter 20 value 1352.786699
final value 1346.251684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.383644
iter 20 value 1352.444744
final value 1346.263663
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.163840
iter 20 value 1352.244178
final value 1345.841995
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.904409
iter 20 value 1352.038580
final value 1345.725167
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646964
iter 20 value 1352.587504
final value 1346.570320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.454567
iter 20 value 1352.307750
final value 1346.369138
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.848393
iter 20 value 1352.918273
final value 1346.256762
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.056231
iter 20 value 1352.353377
final value 1345.592684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.225871
iter 20 value 1352.584615
final value 1345.790741
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.171591
iter 20 value 1351.944485
final value 1346.043401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.570178
iter 20 value 1352.470296
final value 1346.482485
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.693613
iter 20 value 1352.561230
final value 1346.571804
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695399
iter 20 value 1352.542183
final value 1346.564270
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647542
iter 20 value 1352.574246
final value 1346.543267
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678051
iter 20 value 1352.575415
final value 1346.586741
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.479695
iter 20 value 1351.850221
final value 1345.428453
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714323
iter 20 value 1352.632140
final value 1346.437958
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.451332
iter 20 value 1352.531218
final value 1346.190457
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.428223
iter 20 value 1352.300397
final value 1346.333436
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.549602
iter 20 value 1352.457353
final value 1346.398962
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.376648
iter 20 value 1352.319519
final value 1346.248191
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635437
iter 20 value 1352.401926
final value 1346.525828
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.486211
iter 20 value 1352.407050
final value 1346.401843
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.511140
iter 20 value 1352.349200
final value 1346.400597
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560747
iter 20 value 1352.442173
final value 1346.509617
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.365863
iter 20 value 1352.188165
final value 1346.312849
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660780
iter 20 value 1352.617077
final value 1346.564148
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507569
iter 20 value 1352.347829
final value 1346.383749
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638944
iter 20 value 1352.587555
final value 1346.565227
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.649107
iter 20 value 1352.601910
final value 1346.575158
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.384394
iter 20 value 1352.555524
final value 1346.127354
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.763128
iter 20 value 1353.923074
final value 1346.165573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652743
iter 20 value 1352.512668
final value 1346.533776
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635611
iter 20 value 1352.573798
final value 1346.555890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.605171
iter 20 value 1352.538089
final value 1346.518407
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616673
iter 20 value 1352.561001
final value 1346.543576
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654065
iter 20 value 1352.633573
final value 1346.579033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.555269
iter 20 value 1352.802889
final value 1346.482179
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.750079
iter 20 value 1352.608622
final value 1346.613748
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652671
iter 20 value 1352.949673
final value 1346.539206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737977
iter 20 value 1352.615817
final value 1346.604710
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731155
iter 20 value 1352.576224
final value 1346.606108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695801
iter 20 value 1352.627256
final value 1346.568501
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.770727
iter 20 value 1352.639277
final value 1346.600398
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.686103
iter 20 value 1352.615816
final value 1346.556025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.734608
iter 20 value 1352.572794
final value 1346.589106
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716310
iter 20 value 1352.566152
final value 1346.597280
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.659321
iter 20 value 1352.564195
final value 1346.522199
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741323
iter 20 value 1352.690767
final value 1346.610569
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700101
iter 20 value 1352.586497
final value 1346.593961
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651176
iter 20 value 1352.590065
final value 1346.534588
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.084721
iter 20 value 1351.074190
final value 1345.049175
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666969
iter 20 value 1352.500763
final value 1346.563924
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689566
iter 20 value 1352.545899
final value 1346.552685
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704319
iter 20 value 1352.625516
final value 1346.599161
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743051
iter 20 value 1352.607245
final value 1346.590538
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.718728
iter 20 value 1352.659999
final value 1346.604203
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.051726
iter 20 value 1351.777783
final value 1345.952745
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.547987
iter 20 value 1352.428559
final value 1346.497345
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602781
iter 20 value 1352.478143
final value 1346.524511
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667955
iter 20 value 1352.589931
final value 1346.585315
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.621486
iter 20 value 1352.468362
final value 1346.542338
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.502401
iter 20 value 1352.332836
final value 1346.435920
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701031
iter 20 value 1352.687984
final value 1346.585091
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.491562
iter 20 value 1352.382673
final value 1346.443623
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.644370
iter 20 value 1352.498012
final value 1346.533428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720378
iter 20 value 1352.561690
final value 1346.597042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.594911
iter 20 value 1352.476986
final value 1346.498568
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643863
iter 20 value 1352.469768
final value 1346.531367
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736183
iter 20 value 1352.671395
final value 1346.607002
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633993
iter 20 value 1352.703729
final value 1346.548086
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716393
iter 20 value 1352.770796
final value 1346.579803
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.795488
iter 20 value 1352.748882
final value 1346.616467
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761060
iter 20 value 1352.729148
final value 1346.606546
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.709399
iter 20 value 1352.568858
final value 1346.592924
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657019
iter 20 value 1352.619106
final value 1346.526042
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708855
iter 20 value 1352.553813
final value 1346.587274
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710216
iter 20 value 1352.642275
final value 1346.582427
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.743779
iter 20 value 1352.758783
final value 1346.596038
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733331
iter 20 value 1352.712632
final value 1346.599542
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771012
iter 20 value 1352.784583
final value 1346.603304
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595450
iter 20 value 1352.557310
final value 1346.528140
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.663781
iter 20 value 1352.545016
final value 1346.556170
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.698796
iter 20 value 1352.591690
final value 1346.595345
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746247
iter 20 value 1352.629770
final value 1346.614491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.718343
iter 20 value 1352.587569
final value 1346.609411
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697616
iter 20 value 1352.571509
final value 1346.595867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565285
iter 20 value 1352.447591
final value 1346.482287
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604718
iter 20 value 1352.461104
final value 1346.500268
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.240545
iter 20 value 1352.138365
final value 1346.216048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.234319
iter 20 value 1352.104914
final value 1346.191680
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691156
iter 20 value 1352.654124
final value 1346.598942
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1374.571607
iter 20 value 1350.544546
final value 1344.459876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.629679
iter 20 value 1351.414720
final value 1345.559709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692614
iter 20 value 1352.699793
final value 1346.605257
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688176
iter 20 value 1352.619569
final value 1346.598525
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692028
iter 20 value 1352.689472
final value 1346.604089
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709245
iter 20 value 1352.682681
final value 1346.607706
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682870
iter 20 value 1352.555081
final value 1346.572178
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741908
iter 20 value 1352.604466
final value 1346.603390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697122
iter 20 value 1352.682667
final value 1346.605386
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.701334
iter 20 value 1352.667284
final value 1346.608301
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710082
iter 20 value 1352.673654
final value 1346.603685
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.561480
iter 20 value 1352.413047
final value 1346.494526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.930338
iter 20 value 1351.729737
final value 1345.917280
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.592978
iter 20 value 1352.481749
final value 1346.504576
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.545588
iter 20 value 1352.390769
final value 1346.458413
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.536031
iter 20 value 1352.399124
final value 1346.460583
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.228111
iter 20 value 1352.030056
final value 1346.155783
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.554019
iter 20 value 1352.434334
final value 1346.495821
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.750908
iter 20 value 1352.548962
final value 1346.584418
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.660093
iter 20 value 1352.498326
final value 1346.549652
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671220
iter 20 value 1352.536668
final value 1346.554886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692266
iter 20 value 1352.614507
final value 1346.584779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528596
iter 20 value 1352.262894
final value 1346.397426
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717072
iter 20 value 1352.578561
final value 1346.581610
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727922
iter 20 value 1352.641985
final value 1346.602468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716774
iter 20 value 1352.688371
final value 1346.611426
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.689829
iter 20 value 1352.548907
final value 1346.576581
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.577467
iter 20 value 1352.461487
final value 1346.508090
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601730
iter 20 value 1352.477756
final value 1346.503998
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.561239
iter 20 value 1352.433857
final value 1346.504319
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604379
iter 20 value 1352.501424
final value 1346.516766
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.619728
iter 20 value 1352.448769
final value 1346.502801
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712283
iter 20 value 1352.533229
final value 1346.566474
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411925
iter 20 value 1352.270311
final value 1346.341594
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.675288
iter 20 value 1352.590107
final value 1346.560862
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671377
iter 20 value 1352.610711
final value 1346.593238
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.702045
iter 20 value 1352.609769
final value 1346.577822
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.678005
iter 20 value 1352.563272
final value 1346.562201
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684129
iter 20 value 1352.536520
final value 1346.561858
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692512
iter 20 value 1352.666178
final value 1346.595501
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666664
iter 20 value 1352.505260
final value 1346.542996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723442
iter 20 value 1352.766150
final value 1346.609181
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.705329
iter 20 value 1352.692166
final value 1346.609427
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709082
iter 20 value 1352.657762
final value 1346.601060
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.059479
iter 20 value 1351.253388
final value 1345.876699
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.055113
iter 20 value 1350.969329
final value 1344.714750
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630557
iter 20 value 1352.475174
final value 1346.476967
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.222469
iter 20 value 1352.159798
final value 1346.127936
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.208625
iter 20 value 1352.129009
final value 1346.120900
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.641641
iter 20 value 1352.575622
final value 1346.530784
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.482585
iter 20 value 1352.325736
final value 1346.379602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699831
iter 20 value 1352.640960
final value 1346.594170
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.725129
iter 20 value 1352.561609
final value 1346.575553
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681559
iter 20 value 1352.496950
final value 1346.547990
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.221937
iter 20 value 1352.101058
final value 1346.115821
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.665411
iter 20 value 1352.600939
final value 1346.563607
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.536607
iter 20 value 1351.700963
final value 1345.404018
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.526671
iter 20 value 1352.260037
final value 1346.426610
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625729
iter 20 value 1352.508444
final value 1346.521338
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661129
iter 20 value 1352.514108
final value 1346.540782
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680319
iter 20 value 1352.604270
final value 1346.589496
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.213661
iter 20 value 1351.386148
final value 1344.732798
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.227315
iter 20 value 1352.260335
final value 1346.167210
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.301889
iter 20 value 1352.254297
final value 1346.264951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.580980
iter 20 value 1351.875619
final value 1344.997377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.186334
iter 20 value 1352.040007
final value 1346.061037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.477667
iter 20 value 1352.371959
final value 1346.377016
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.511569
iter 20 value 1352.380383
final value 1346.406969
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.622653
iter 20 value 1352.532322
final value 1346.502669
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.629153
iter 20 value 1352.500632
final value 1346.521216
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.175664
iter 20 value 1352.038657
final value 1346.058519
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635016
iter 20 value 1352.510460
final value 1346.526602
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.152183
iter 20 value 1352.437581
final value 1345.716582
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574033
iter 20 value 1352.479094
final value 1346.477650
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.492014
iter 20 value 1352.429292
final value 1346.402552
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.551698
iter 20 value 1352.414113
final value 1346.444769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.607034
iter 20 value 1352.488384
final value 1346.493655
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.347342
iter 20 value 1352.271537
final value 1346.287210
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.612429
iter 20 value 1352.493717
final value 1346.498541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691943
iter 20 value 1352.582673
final value 1346.581334
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565665
iter 20 value 1352.451706
final value 1346.493186
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.715186
iter 20 value 1352.638903
final value 1346.607147
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691946
iter 20 value 1352.586177
final value 1346.574648
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.380428
iter 20 value 1352.178076
final value 1346.322162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.499127
iter 20 value 1352.333173
final value 1346.378121
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.431450
iter 20 value 1352.260232
final value 1346.322258
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.080863
iter 20 value 1351.924566
final value 1345.973064
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.635475
iter 20 value 1352.499125
final value 1346.549577
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.587577
iter 20 value 1352.452107
final value 1346.511378
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735030
iter 20 value 1352.627640
final value 1346.599258
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.714769
iter 20 value 1352.595206
final value 1346.604844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681987
iter 20 value 1352.571046
final value 1346.583794
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659301
iter 20 value 1352.524762
final value 1346.568565
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.347856
iter 20 value 1352.176613
final value 1346.281146
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.279684
iter 20 value 1352.110712
final value 1346.224745
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.588647
iter 20 value 1352.449554
final value 1346.503876
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.650881
iter 20 value 1352.525212
final value 1346.564633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685700
iter 20 value 1352.514598
final value 1346.551851
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683658
iter 20 value 1352.574531
final value 1346.563775
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.618264
iter 20 value 1352.581709
final value 1346.488208
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657060
iter 20 value 1352.556026
final value 1346.542025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717143
iter 20 value 1352.599794
final value 1346.594550
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.654797
iter 20 value 1352.543387
final value 1346.535786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.491187
iter 20 value 1352.375422
final value 1346.364502
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671351
iter 20 value 1352.540035
final value 1346.544923
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.461227
iter 20 value 1352.570217
final value 1346.323769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.672807
iter 20 value 1352.598640
final value 1346.542057
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618415
iter 20 value 1352.508653
final value 1346.486359
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.161652
iter 20 value 1351.932663
final value 1346.080640
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.587563
iter 20 value 1352.443350
final value 1346.513684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638133
iter 20 value 1352.524724
final value 1346.565149
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595336
iter 20 value 1352.429598
final value 1346.503497
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.596238
iter 20 value 1352.463592
final value 1346.520443
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677265
iter 20 value 1352.552042
final value 1346.551054
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.929667
iter 20 value 1351.710521
final value 1345.882616
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.557042
iter 20 value 1352.361329
final value 1346.492151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679141
iter 20 value 1352.554740
final value 1346.588658
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.696789
iter 20 value 1352.557842
final value 1346.578085
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695876
iter 20 value 1352.575091
final value 1346.576377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505304
iter 20 value 1352.319082
final value 1346.395351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687331
iter 20 value 1352.513847
final value 1346.557216
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694534
iter 20 value 1352.554799
final value 1346.560108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.645903
iter 20 value 1352.517437
final value 1346.567824
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.586559
iter 20 value 1352.455371
final value 1346.513834
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.672333
iter 20 value 1352.583374
final value 1346.588436
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.524564
iter 20 value 1352.385791
final value 1346.470008
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.633973
iter 20 value 1352.483656
final value 1346.539108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.617856
iter 20 value 1352.533265
final value 1346.567714
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.584138
iter 20 value 1352.563986
final value 1346.155474
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.295915
iter 20 value 1351.143536
final value 1344.917764
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.552139
iter 20 value 1351.653867
final value 1345.112798
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.643102
iter 20 value 1351.221815
final value 1345.466810
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.674044
iter 20 value 1351.810988
final value 1345.243774
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.247484
iter 20 value 1351.475707
final value 1344.731959
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.286172
iter 20 value 1350.419869
final value 1344.769810
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1374.546301
iter 20 value 1350.911395
final value 1344.104694
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580627
iter 20 value 1352.882336
final value 1346.215041
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.258678
iter 20 value 1351.976021
final value 1346.074603
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740225
iter 20 value 1352.666848
final value 1346.591987
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740225
iter 20 value 1352.666848
final value 1346.591987
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.397711
iter 20 value 1352.310254
final value 1346.307373
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.273991
iter 20 value 1352.299781
final value 1346.115683
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.826539
iter 20 value 1352.566377
final value 1346.571304
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765818
iter 20 value 1352.604591
final value 1346.580779
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.828697
iter 20 value 1352.618657
final value 1346.524711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.438731
iter 20 value 1351.449422
final value 1345.499532
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624065
iter 20 value 1352.560326
final value 1346.569776
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.402920
iter 20 value 1352.244704
final value 1346.282807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.354195
iter 20 value 1352.301504
final value 1346.412382
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.454132
iter 20 value 1352.408008
final value 1346.492786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.508164
iter 20 value 1349.879882
final value 1344.472101
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.058619
iter 20 value 1351.447416
final value 1344.728841
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.071997
iter 20 value 1350.091187
final value 1344.014396
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.998635
iter 20 value 1351.926279
final value 1346.138982
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.348567
iter 20 value 1350.208954
final value 1344.397594
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.270310
iter 20 value 1352.296422
final value 1346.216744
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.546955
iter 20 value 1352.372342
final value 1346.468834
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.195301
iter 20 value 1348.980630
final value 1343.909480
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.435110
iter 20 value 1352.500695
final value 1346.521072
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.669071
iter 20 value 1351.222194
final value 1345.539622
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.535390
iter 20 value 1350.976193
final value 1344.642154
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1371.888626
iter 20 value 1347.842894
final value 1341.781397
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.207663
iter 20 value 1350.834662
final value 1345.009092
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.219128
iter 20 value 1352.051523
final value 1346.178633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.520300
iter 20 value 1352.408872
final value 1346.481914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.146324
iter 20 value 1352.143756
final value 1346.102345
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528454
iter 20 value 1352.414960
final value 1346.421343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.686300
iter 20 value 1349.616515
final value 1343.568857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.433088
iter 20 value 1349.671828
final value 1344.250951
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.965199
iter 20 value 1350.549104
final value 1344.833359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687882
iter 20 value 1352.657320
final value 1346.589265
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.402668
iter 20 value 1352.602495
final value 1346.227291
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.197863
iter 20 value 1351.157470
final value 1345.300466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666089
iter 20 value 1352.488944
final value 1346.551399
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.306099
iter 20 value 1350.604746
final value 1344.172122
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.173793
iter 20 value 1350.251726
final value 1343.039109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.438450
iter 20 value 1352.333308
final value 1346.413451
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.085467
iter 20 value 1350.211414
final value 1344.031005
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.263660
iter 20 value 1352.162512
final value 1346.179152
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.841754
iter 20 value 1349.250833
final value 1343.595598
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.792916
iter 20 value 1352.224511
final value 1346.578598
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.615141
iter 20 value 1352.420412
final value 1346.532832
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.336574
iter 20 value 1350.029631
final value 1344.227273
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.049256
iter 20 value 1351.879611
final value 1345.912483
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.672010
iter 20 value 1352.520084
final value 1346.555829
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.165290
iter 20 value 1352.015003
final value 1346.040999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.979837
iter 20 value 1351.876954
final value 1345.885859
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713270
iter 20 value 1351.863608
final value 1346.356683
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.514716
iter 20 value 1352.413291
final value 1346.496001
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.504479
iter 20 value 1352.340821
final value 1346.381591
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.496280
iter 20 value 1352.488969
final value 1346.498608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.020495
iter 20 value 1351.814601
final value 1345.977014
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535609
iter 20 value 1352.465137
final value 1346.539813
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.489036
iter 20 value 1347.603847
final value 1341.917109
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.413416
iter 20 value 1351.874815
final value 1346.321698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.214531
iter 20 value 1352.174562
final value 1346.245356
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.425670
iter 20 value 1351.725499
final value 1345.535359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616596
iter 20 value 1352.464040
final value 1346.536430
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.818387
iter 20 value 1352.403182
final value 1346.605531
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.071446
iter 20 value 1352.008565
final value 1346.069700
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.975506
iter 20 value 1351.818762
final value 1345.934755
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.088782
iter 20 value 1351.963503
final value 1345.989444
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627932
iter 20 value 1352.555209
final value 1346.533047
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.686916
iter 20 value 1352.586852
final value 1346.585269
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767306
iter 20 value 1352.454810
final value 1346.583221
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745984
iter 20 value 1352.587353
final value 1346.595324
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659845
iter 20 value 1352.489217
final value 1346.539578
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.583005
iter 20 value 1352.425545
final value 1346.481389
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.589740
iter 20 value 1352.450064
final value 1346.496437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.755741
iter 20 value 1352.676361
final value 1346.591275
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.819274
iter 20 value 1352.648677
final value 1346.600922
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.534794
iter 20 value 1352.432136
final value 1346.459102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.194702
iter 20 value 1352.192654
final value 1346.174606
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674813
iter 20 value 1352.556045
final value 1346.575712
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.169946
iter 20 value 1351.114346
final value 1346.038133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.381730
iter 20 value 1352.302141
final value 1346.314888
converged
# weights: 27 (16 variable)

```



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initial value 4312.053233
iter 10 value 1376.678160
iter 20 value 1351.739491
final value 1346.422424
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643431
iter 20 value 1352.455831
final value 1346.513711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.579357
iter 20 value 1352.581490
final value 1346.447128
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.783721
iter 20 value 1352.744145
final value 1346.614802
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.801597
iter 20 value 1351.722190
final value 1345.794762
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.017473
iter 20 value 1351.907286
final value 1346.059384
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.592289
iter 20 value 1352.471410
final value 1346.514838
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.281506
iter 20 value 1352.142620
final value 1346.228668
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.625729
iter 20 value 1352.437387
final value 1346.513096
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.230943
iter 20 value 1352.109486
final value 1346.185921
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.453241
iter 20 value 1352.321969
final value 1346.370074
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739394
iter 20 value 1352.703755
final value 1346.604999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.612820
iter 20 value 1352.533290
final value 1346.541025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.572343
iter 20 value 1352.465999
final value 1346.472798
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.559534
iter 20 value 1352.628045
final value 1346.375004
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679810
iter 20 value 1352.638484
final value 1346.596172
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727609
iter 20 value 1352.670296
final value 1346.609168
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582129
iter 20 value 1352.502910
final value 1346.541751
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.494594
iter 20 value 1352.357110
final value 1346.402192
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.279792
iter 20 value 1352.190744
final value 1346.081725
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535657
iter 20 value 1352.355014
final value 1346.458390
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.979578
iter 20 value 1351.930281
final value 1345.968796
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.337320
iter 20 value 1352.364461
final value 1346.167116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668189
iter 20 value 1352.502890
final value 1346.557429
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.434096
iter 20 value 1352.287851
final value 1346.355710
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.487752
iter 20 value 1352.290860
final value 1346.419579
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733085
iter 20 value 1352.529413
final value 1346.603765
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.768865
iter 20 value 1352.443873
final value 1346.577758
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.978138
iter 20 value 1351.835997
final value 1346.011917
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.530080
iter 20 value 1352.441636
final value 1346.431472
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687171
iter 20 value 1352.612631
final value 1346.571846
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703517
iter 20 value 1352.725328
final value 1346.608046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.352574
iter 20 value 1352.212435
final value 1346.305432
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602011
iter 20 value 1352.533099
final value 1346.556445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632676
iter 20 value 1352.548969
final value 1346.566150
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.017640
iter 20 value 1351.993944
final value 1345.694935
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.774883
iter 20 value 1352.546247
final value 1346.579867
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658136
iter 20 value 1352.381004
final value 1346.543664
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.575459
iter 20 value 1352.516696
final value 1346.462237
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.614686
iter 20 value 1352.557269
final value 1346.563435
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.828408
iter 20 value 1351.773939
final value 1345.872954
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.793789
iter 20 value 1351.753104
final value 1345.796134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.669344
iter 20 value 1349.771494
final value 1343.440151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682648
iter 20 value 1352.473108
final value 1346.555124
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.541326
iter 20 value 1352.381382
final value 1346.488536
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.704965
iter 20 value 1352.595438
final value 1346.585236
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.828929
iter 20 value 1351.776416
final value 1345.635779
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657228
iter 20 value 1352.593282
final value 1346.584625
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.034423
iter 20 value 1351.964168
final value 1345.782439
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.373304
iter 20 value 1351.396708
final value 1345.174052
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.859131
iter 20 value 1352.735117
final value 1346.596216
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.034313
iter 20 value 1351.953075
final value 1346.042033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.522471
iter 20 value 1352.375930
final value 1346.453261
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.564582
iter 20 value 1352.447970
final value 1346.524002
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.750109
iter 20 value 1352.615303
final value 1346.611096
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741381
iter 20 value 1352.563575
final value 1346.594739
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.741520
iter 20 value 1352.560679
final value 1346.606868
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.757494
iter 20 value 1352.583298
final value 1346.607806
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685358
iter 20 value 1352.578191
final value 1346.575556
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.420250
iter 20 value 1352.284659
final value 1346.404898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710998
iter 20 value 1352.551268
final value 1346.588240
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577432
iter 20 value 1352.441759
final value 1346.493405
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658400
iter 20 value 1352.530575
final value 1346.577555
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.625979
iter 20 value 1352.542157
final value 1346.537658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688144
iter 20 value 1352.531082
final value 1346.562660
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657970
iter 20 value 1352.559597
final value 1346.553267
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.726237
iter 20 value 1352.573184
final value 1346.594872
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.605276
iter 20 value 1352.459129
final value 1346.492311
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630193
iter 20 value 1352.475801
final value 1346.532769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.425850
iter 20 value 1352.339057
final value 1346.368166
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715554
iter 20 value 1352.610126
final value 1346.596250
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.044952
iter 20 value 1352.202997
final value 1346.161469
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.689703
iter 20 value 1352.546304
final value 1346.574452
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.563035
iter 20 value 1352.440140
final value 1346.484225
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.594520
iter 20 value 1352.406058
final value 1346.491809
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556834
iter 20 value 1352.410586
final value 1346.497138
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.595868
iter 20 value 1352.451700
final value 1346.490501
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700274
iter 20 value 1352.534016
final value 1346.582058
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685365
iter 20 value 1352.553750
final value 1346.576371
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733854
iter 20 value 1352.601833
final value 1346.601694
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.481660
iter 20 value 1352.328171
final value 1346.400024
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.662263
iter 20 value 1352.512012
final value 1346.557031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.721383
iter 20 value 1352.572155
final value 1346.598883
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.616463
iter 20 value 1352.468016
final value 1346.527132
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704526
iter 20 value 1352.642177
final value 1346.609652
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.609471
iter 20 value 1352.447161
final value 1346.505992
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.597928
iter 20 value 1352.474216
final value 1346.516373
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703885
iter 20 value 1352.576564
final value 1346.580428
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.705253
iter 20 value 1350.818576
final value 1344.732468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.575755
iter 20 value 1352.483885
final value 1346.505802
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.753275
iter 20 value 1352.653949
final value 1346.603083
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.129061
iter 20 value 1351.442580
final value 1345.262525
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.745177
iter 20 value 1352.545757
final value 1346.605870
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.678251
iter 20 value 1351.821643
final value 1345.718539
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.884049
iter 20 value 1351.296033
final value 1344.999216
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.770813
iter 20 value 1351.875584
final value 1345.800162
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723364
iter 20 value 1352.614984
final value 1346.610253
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.551815
iter 20 value 1352.405361
final value 1346.460558
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.525560
iter 20 value 1352.358182
final value 1346.438433
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.448672
iter 20 value 1352.290115
final value 1346.398185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460117
iter 20 value 1352.301880
final value 1346.393613
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.581526
iter 20 value 1352.394901
final value 1346.488521
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.162263
iter 20 value 1351.971358
final value 1346.110810
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.344959
iter 20 value 1352.207745
final value 1346.316285
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.523940
iter 20 value 1352.074274
final value 1346.388176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.406652
iter 20 value 1352.238363
final value 1346.352835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582634
iter 20 value 1352.544984
final value 1346.541462
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.448384
iter 20 value 1352.411537
final value 1346.441996
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.636803
iter 20 value 1351.809809
final value 1345.715474
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.146206
iter 20 value 1352.110149
final value 1346.119633
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638425
iter 20 value 1352.449549
final value 1346.526402
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.512226
iter 20 value 1352.360106
final value 1346.438424
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.576021
iter 20 value 1352.387384
final value 1346.475695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.251410
iter 20 value 1353.059498
final value 1345.983769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.374315
iter 20 value 1352.263062
final value 1346.325958
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.529880
iter 20 value 1352.369390
final value 1346.448277
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578527
iter 20 value 1352.410032
final value 1346.480318
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.555177
iter 20 value 1352.422965
final value 1346.447885
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.173206
iter 20 value 1352.101217
final value 1346.110772
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611364
iter 20 value 1352.540531
final value 1346.558847
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.459744
iter 20 value 1352.462621
final value 1346.456722
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.144916
iter 20 value 1352.107755
final value 1346.152258
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.588557
iter 20 value 1352.478907
final value 1346.488913
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.791394
iter 20 value 1351.876520
final value 1345.817616
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.413408
iter 20 value 1351.682134
final value 1345.538832
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.858607
iter 20 value 1351.948849
final value 1345.917146
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1375.853505
iter 20 value 1351.926386
final value 1345.874563
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.681215
iter 20 value 1351.797764
final value 1345.722982
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.382123
iter 20 value 1352.284313
final value 1346.328037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.692198
iter 20 value 1352.529755
final value 1346.573602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676759
iter 20 value 1352.621543
final value 1346.550598
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.362595
iter 20 value 1352.280819
final value 1346.259812
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.599084
iter 20 value 1352.393147
final value 1346.491906
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.659628
iter 20 value 1352.561306
final value 1346.580940
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.564656
iter 20 value 1352.515119
final value 1346.490191
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.621298
iter 20 value 1352.573564
final value 1346.548896
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504971
iter 20 value 1352.487725
final value 1346.510290
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577681
iter 20 value 1352.415477
final value 1346.482660
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.586640
iter 20 value 1352.403875
final value 1346.480484
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.024885
iter 20 value 1352.001854
final value 1345.995015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.947014
iter 20 value 1351.991864
final value 1345.966116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.977555
iter 20 value 1351.974512
final value 1345.956045
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.791394
iter 20 value 1351.876520
final value 1345.817616
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.431810
iter 20 value 1352.308487
final value 1346.344648
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.032888
iter 20 value 1352.111300
final value 1346.010849
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.585671
iter 20 value 1352.396427
final value 1346.501418
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.241641
iter 20 value 1352.186841
final value 1346.179379
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.167468
iter 20 value 1350.130552
final value 1342.770466
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.150737
iter 20 value 1351.842034
final value 1346.153049
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.018650
iter 20 value 1351.752143
final value 1346.028501
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.549140
iter 20 value 1352.358879
final value 1346.447849
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606353
iter 20 value 1352.423870
final value 1346.499468
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565009
iter 20 value 1352.493308
final value 1346.504335
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.642386
iter 20 value 1352.591728
final value 1346.569698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.398937
iter 20 value 1352.332306
final value 1346.338046
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.566969
iter 20 value 1352.508605
final value 1346.519976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.626136
iter 20 value 1352.458986
final value 1346.519089
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.078977
iter 20 value 1352.116216
final value 1346.034431
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.607783
iter 20 value 1352.409162
final value 1346.502560
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690228
iter 20 value 1352.550351
final value 1346.572641
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715582
iter 20 value 1352.557525
final value 1346.591807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.173486
iter 20 value 1352.014253
final value 1346.167884
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.660465
iter 20 value 1352.488881
final value 1346.543518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.815427
iter 20 value 1351.903570
final value 1345.845675
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736264
iter 20 value 1352.528813
final value 1346.592627
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661247
iter 20 value 1352.612913
final value 1346.567116
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.397254
iter 20 value 1352.292294
final value 1346.353135
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.540947
iter 20 value 1352.480994
final value 1346.483916
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608725
iter 20 value 1352.503720
final value 1346.521059
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.293586
iter 20 value 1350.483258
final value 1344.055932
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.907671
iter 20 value 1349.791998
final value 1343.573449
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.707458
iter 20 value 1352.529102
final value 1346.589401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.330984
iter 20 value 1350.836320
final value 1345.255068
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.422248
iter 20 value 1351.771509
final value 1346.326747
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681769
iter 20 value 1352.556841
final value 1346.569361
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.156541
iter 20 value 1352.161658
final value 1346.016179
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.134102
iter 20 value 1351.237231
final value 1345.146978
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.324376
iter 20 value 1351.936074
final value 1346.391653
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723967
iter 20 value 1352.683526
final value 1346.589934
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.722534
iter 20 value 1351.623938
final value 1345.748159
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1373.402543
iter 20 value 1349.224261
final value 1343.049654
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.395183
iter 20 value 1351.577010
final value 1345.435658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679124
iter 20 value 1352.510326
final value 1346.558338
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.352712
iter 20 value 1352.236401
final value 1346.266189
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.834756
iter 20 value 1351.593196
final value 1345.755081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.190492
iter 20 value 1352.016219
final value 1345.811929
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1377.450683
iter 20 value 1352.352519
final value 1346.467374
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704297
iter 20 value 1352.602638
final value 1346.568224
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.064179
iter 20 value 1350.827667
final value 1344.829326
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.845684
iter 20 value 1352.145658
final value 1346.137171
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707915
iter 20 value 1352.612982
final value 1346.594712
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632579
iter 20 value 1352.539420
final value 1346.534914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.646754
iter 20 value 1352.449432
final value 1346.526257
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679653
iter 20 value 1352.530083
final value 1346.556838
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.752436
iter 20 value 1351.891878
final value 1345.309697
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602036
iter 20 value 1352.325758
final value 1346.475027
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.387286
iter 20 value 1351.369553
final value 1345.120367
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.556772
iter 20 value 1352.433663
final value 1346.435030
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.602979
iter 20 value 1352.264132
final value 1346.440911
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.731963
iter 20 value 1352.537985
final value 1346.587133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708203
iter 20 value 1352.591741
final value 1346.604256
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.884696
iter 20 value 1351.640571
final value 1345.485595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.325603
iter 20 value 1352.090271
final value 1346.260282
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773404
iter 20 value 1352.593054
final value 1346.596835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.170807
iter 20 value 1349.913213
final value 1343.782087
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.878958
iter 20 value 1351.781482
final value 1345.554187
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674917
iter 20 value 1352.998625
final value 1346.194062
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.392647
iter 20 value 1352.274694
final value 1346.285356
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577111
iter 20 value 1352.437593
final value 1346.536613
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703954
iter 20 value 1352.571957
final value 1346.584986
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.532230
iter 20 value 1352.348694
final value 1346.458921
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683210
iter 20 value 1352.568109
final value 1346.566509
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.623679
iter 20 value 1352.508609
final value 1346.514496
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.293127
iter 20 value 1352.028393
final value 1346.097678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748762
iter 20 value 1352.586209
final value 1346.602912
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680551
iter 20 value 1351.881037
final value 1346.294616
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.755272
iter 20 value 1352.565871
final value 1346.601652
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.567974
iter 20 value 1351.794981
final value 1346.208307
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775956
iter 20 value 1354.226057
final value 1346.372812
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.337361
iter 20 value 1351.966261
final value 1345.917953
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.374257
iter 20 value 1352.216026
final value 1346.215028
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682413
iter 20 value 1352.111932
final value 1346.373827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706862
iter 20 value 1352.498788
final value 1346.567195
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.771907
iter 20 value 1352.665039
final value 1346.605463
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.438933
iter 20 value 1352.062910
final value 1346.271399
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1374.460878
iter 20 value 1350.855294
final value 1343.723839
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.682375
iter 20 value 1352.444031
final value 1346.545639
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661984
iter 20 value 1352.518393
final value 1346.557864
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677994
iter 20 value 1352.647740
final value 1346.609066
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640070
iter 20 value 1352.481064
final value 1346.546437
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671374
iter 20 value 1352.509488
final value 1346.573154
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.499768
iter 20 value 1352.209723
final value 1346.394842
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582723
iter 20 value 1352.403834
final value 1346.503988
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699906
iter 20 value 1352.628312
final value 1346.600492
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.670701
iter 20 value 1352.568861
final value 1346.564047
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.632905
iter 20 value 1352.512290
final value 1346.520036
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.737750
iter 20 value 1352.606184
final value 1346.604551
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.705502
iter 20 value 1352.618369
final value 1346.589515
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693329
iter 20 value 1352.574643
final value 1346.577786
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.683524
iter 20 value 1352.613106
final value 1346.575996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.620582
iter 20 value 1352.426555
final value 1346.536845
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.748377
iter 20 value 1352.505161
final value 1346.595139
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.711831
iter 20 value 1352.548702
final value 1346.596074
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.606986
iter 20 value 1352.473933
final value 1346.500464
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701615
iter 20 value 1352.588161
final value 1346.585610
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709211
iter 20 value 1352.616899
final value 1346.585262
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.736360
iter 20 value 1352.512902
final value 1346.594276
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707095
iter 20 value 1352.588706
final value 1346.604353
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.619447
iter 20 value 1352.511793
final value 1346.531742
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773303
iter 20 value 1352.635188
final value 1346.615317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746590
iter 20 value 1352.594181
final value 1346.608655
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676198
iter 20 value 1352.474105
final value 1346.573941
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.727270
iter 20 value 1352.567376
final value 1346.602680
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.714667
iter 20 value 1352.582536
final value 1346.608001
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690525
iter 20 value 1352.462148
final value 1346.571692
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.783314
iter 20 value 1352.563061
final value 1346.608624
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723424
iter 20 value 1352.552727
final value 1346.602689
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.754962
iter 20 value 1352.584511
final value 1346.603733
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.747424
iter 20 value 1352.527449
final value 1346.594246
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.781677
iter 20 value 1352.580069
final value 1346.612426
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.775165
iter 20 value 1352.584567
final value 1346.610410
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.689408
iter 20 value 1352.633848
final value 1346.583711
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.715894
iter 20 value 1352.649144
final value 1346.596808
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690273
iter 20 value 1352.625536
final value 1346.583993
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657182
iter 20 value 1352.569531
final value 1346.548198
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.657137
iter 20 value 1352.585665
final value 1346.550149
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698315
iter 20 value 1352.602021
final value 1346.581108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.627240
iter 20 value 1352.512365
final value 1346.517668
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666529
iter 20 value 1352.585631
final value 1346.556255
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.850745
iter 20 value 1352.107358
final value 1346.406383
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.799987
iter 20 value 1352.152404
final value 1346.469707
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.488785
iter 20 value 1352.327147
final value 1346.404755
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.207065
iter 20 value 1351.898515
final value 1346.086025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.824355
iter 20 value 1351.619795
final value 1345.639037
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.977250
iter 20 value 1352.682486
final value 1346.546484
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.886009
iter 20 value 1352.416052
final value 1346.501607
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.949120
iter 20 value 1351.801063
final value 1345.530190
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.990606
iter 20 value 1351.915852
final value 1346.375173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.474390
iter 20 value 1352.290189
final value 1346.416097
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.566353
iter 20 value 1351.899910
final value 1346.256343
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658577
iter 20 value 1352.534927
final value 1346.548695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.178853
iter 20 value 1351.516858
final value 1346.174720
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699979
iter 20 value 1352.592881
final value 1346.588517
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.720903
iter 20 value 1352.632038
final value 1346.583981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436075
iter 20 value 1352.363205
final value 1346.312137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740016
iter 20 value 1352.653833
final value 1346.607357
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676014
iter 20 value 1352.631341
final value 1346.595228
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688489
iter 20 value 1352.731968
final value 1346.605290
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.703440
iter 20 value 1352.548781
final value 1346.548387
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.638421
iter 20 value 1352.451817
final value 1346.515816
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.773493
iter 20 value 1352.550155
final value 1346.596677
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.713001
iter 20 value 1352.810502
final value 1346.613138
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679721
iter 20 value 1352.613230
final value 1346.593256
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698954
iter 20 value 1352.646195
final value 1346.600953
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.695163
iter 20 value 1352.666590
final value 1346.604535
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685022
iter 20 value 1352.644860
final value 1346.580011
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693218
iter 20 value 1352.656355
final value 1346.609267
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.694610
iter 20 value 1352.698110
final value 1346.609573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.554579
iter 20 value 1352.401093
final value 1346.399212
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436075
iter 20 value 1352.363205
final value 1346.312137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710215
iter 20 value 1352.739617
final value 1346.605886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694610
iter 20 value 1352.698110
final value 1346.609573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436075
iter 20 value 1352.363205
final value 1346.312137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.211374
iter 20 value 1352.277049
final value 1346.077961
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436818
iter 20 value 1352.319957
final value 1346.304536
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679074
iter 20 value 1352.605437
final value 1346.586738
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.701815
iter 20 value 1352.678391
final value 1346.605566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436075
iter 20 value 1352.363205
final value 1346.312137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694610
iter 20 value 1352.698110
final value 1346.609573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.462423
iter 20 value 1352.349153
final value 1346.304828
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.691214
iter 20 value 1352.690715
final value 1346.608936
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.647542
iter 20 value 1352.530435
final value 1346.545757
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.733863
iter 20 value 1352.646525
final value 1346.607083
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.739587
iter 20 value 1352.653627
final value 1346.608065
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735144
iter 20 value 1352.646956
final value 1346.607265
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.677249
iter 20 value 1352.606365
final value 1346.579890
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669843
iter 20 value 1352.540482
final value 1346.560431
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696865
iter 20 value 1352.575596
final value 1346.585445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.588009
iter 20 value 1352.412037
final value 1346.489765
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.495463
iter 20 value 1351.376470
final value 1345.302370
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722249
iter 20 value 1352.550074
final value 1346.583063
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.669987
iter 20 value 1352.609839
final value 1346.593713
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723028
iter 20 value 1352.588896
final value 1346.581545
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.674953
iter 20 value 1352.612748
final value 1346.597593
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.692067
iter 20 value 1352.618159
final value 1346.597391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.054081
iter 20 value 1352.012797
final value 1345.782052
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.666559
iter 20 value 1352.577965
final value 1346.577236
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.708440
iter 20 value 1352.611595
final value 1346.576640
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704565
iter 20 value 1352.435876
final value 1346.549938
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.408683
iter 20 value 1352.347446
final value 1346.243195
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.575058
iter 20 value 1352.547065
final value 1346.288566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.238349
iter 20 value 1352.344577
final value 1346.162800
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.550476
iter 20 value 1352.446069
final value 1346.393740
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.701285
iter 20 value 1352.606888
final value 1346.600935
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.937440
iter 20 value 1351.927835
final value 1345.689547
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.214161
iter 20 value 1352.134953
final value 1346.041372
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704270
iter 20 value 1352.630648
final value 1346.607521
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.650599
iter 20 value 1352.546207
final value 1346.565654
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.341238
iter 20 value 1352.261498
final value 1346.082535
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.801236
iter 20 value 1351.618389
final value 1345.591589
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.495463
iter 20 value 1351.376470
final value 1345.302370
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.704650
iter 20 value 1352.646970
final value 1346.602864
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.675595
iter 20 value 1352.616094
final value 1346.593025
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644510
iter 20 value 1352.544625
final value 1346.531353
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.195230
iter 20 value 1352.007772
final value 1346.122209
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.326726
iter 20 value 1352.120221
final value 1346.235637
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735144
iter 20 value 1352.646956
final value 1346.607265
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.281151
iter 20 value 1352.323752
final value 1346.094963
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.039699
iter 20 value 1351.790651
final value 1345.996430
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.738783
iter 20 value 1352.497812
final value 1346.584409
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.716640
iter 20 value 1352.465506
final value 1346.552396
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.870084
iter 20 value 1351.689749
final value 1345.712427
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.225617
iter 20 value 1352.102073
final value 1346.207107
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.613437
iter 20 value 1352.098342
final value 1346.417918
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.679751
iter 20 value 1352.699570
final value 1346.567478
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.497133
iter 20 value 1352.758593
final value 1346.462930
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.241140
iter 20 value 1351.185429
final value 1345.155910
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.304153
iter 20 value 1352.368866
final value 1346.330257
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.487876
iter 20 value 1352.982094
final value 1346.453658
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.493327
iter 20 value 1352.377873
final value 1346.387399
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.568202
iter 20 value 1352.358572
final value 1346.489561
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.724152
iter 20 value 1352.607367
final value 1346.604875
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.722845
iter 20 value 1351.664964
final value 1345.687813
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.479644
iter 20 value 1351.578613
final value 1345.532818
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.591180
iter 20 value 1352.606520
final value 1346.543460
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.991564
iter 20 value 1352.681141
final value 1345.963206
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.765120
iter 20 value 1352.583767
final value 1346.610014
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.178027
iter 20 value 1348.700868
final value 1343.266268
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.256851
iter 20 value 1352.008915
final value 1346.123547
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.740555
iter 20 value 1351.462489
final value 1345.540118
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.338751
iter 20 value 1352.133603
final value 1346.269781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.554250
iter 20 value 1350.371235
final value 1344.458494
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.213395
iter 20 value 1352.477089
final value 1346.281650
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.131808
iter 20 value 1352.043498
final value 1346.038351
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.126842
iter 20 value 1352.032845
final value 1346.144195
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.539600
iter 20 value 1351.310461
final value 1345.471752
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.685059
iter 20 value 1352.397220
final value 1346.520709
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700208
iter 20 value 1352.377589
final value 1346.588749
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.510139
iter 20 value 1352.307807
final value 1346.385678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.651024
iter 20 value 1350.552778
final value 1344.542519
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.919912
iter 20 value 1352.834612
final value 1345.889017
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.814734
iter 20 value 1349.964221
final value 1344.556214
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722146
iter 20 value 1352.499556
final value 1346.588751
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.113686
iter 20 value 1351.717780
final value 1345.994478
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722733
iter 20 value 1352.443844
final value 1346.569933
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.664313
iter 20 value 1351.423929
final value 1345.473976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.503470
iter 20 value 1352.400621
final value 1346.349931
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.532395
iter 20 value 1352.263955
final value 1346.378987
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.550001
iter 20 value 1351.427723
final value 1345.415502
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.375837
iter 20 value 1351.285178
final value 1345.226607
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582070
iter 20 value 1352.550946
final value 1346.537136
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.783286
iter 20 value 1352.572574
final value 1346.612963
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.488794
iter 20 value 1352.511239
final value 1346.424687
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.645018
iter 20 value 1352.501490
final value 1346.555852
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.634879
iter 20 value 1352.439480
final value 1346.510568
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.009456
iter 20 value 1350.546653
final value 1344.771727
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.161982
iter 20 value 1352.092033
final value 1346.030567
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.585753
iter 20 value 1350.606976
final value 1344.475091
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.509026
iter 20 value 1352.321638
final value 1346.457015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701566
iter 20 value 1352.459778
final value 1346.553957
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.255206
iter 20 value 1352.114123
final value 1346.156686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.435305
iter 20 value 1352.605519
final value 1346.338400
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709286
iter 20 value 1352.491770
final value 1346.572414
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.513629
iter 20 value 1352.282650
final value 1346.382179
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.301987
iter 20 value 1352.814554
final value 1346.344498
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.281284
iter 20 value 1352.013632
final value 1346.193850
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.389932
iter 20 value 1352.007953
final value 1346.257164
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651621
iter 20 value 1352.777994
final value 1346.590388
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723789
iter 20 value 1352.519441
final value 1346.600481
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.569179
iter 20 value 1352.412161
final value 1346.493942
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676353
iter 20 value 1352.550285
final value 1346.599498
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.536586
iter 20 value 1352.931985
final value 1346.482549
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.257079
iter 20 value 1351.856190
final value 1346.114638
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.242605
iter 20 value 1352.106905
final value 1346.118838
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.698585
iter 20 value 1352.697759
final value 1346.558093
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411521
iter 20 value 1352.218781
final value 1346.338781
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.652585
iter 20 value 1352.521413
final value 1346.538040
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.038722
iter 20 value 1351.794149
final value 1346.083339
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.960193
iter 20 value 1352.188013
final value 1345.924607
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.028460
iter 20 value 1352.503583
final value 1346.141615
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.266212
iter 20 value 1352.522010
final value 1346.088567
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.453379
iter 20 value 1352.502859
final value 1346.492870
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.297283
iter 20 value 1352.187253
final value 1346.223941
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.513736
iter 20 value 1352.596440
final value 1346.516057
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.060118
iter 20 value 1352.249432
final value 1346.095362
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.095139
iter 20 value 1351.693615
final value 1346.001213
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.472325
iter 20 value 1352.624966
final value 1346.499999
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.053602
iter 20 value 1350.827286
final value 1344.901857
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.046054
iter 20 value 1352.620775
final value 1345.776963
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.280527
iter 20 value 1352.250543
final value 1346.304827
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.518209
iter 20 value 1352.740404
final value 1346.538176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.793671
iter 20 value 1352.436228
final value 1346.576091
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.006454
iter 20 value 1351.881321
final value 1345.838602
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.212875
iter 20 value 1352.182418
final value 1346.231186
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.456940
iter 20 value 1352.104200
final value 1346.388996
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.442405
iter 20 value 1352.597668
final value 1346.479835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.027979
iter 20 value 1349.372440
final value 1344.094914
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1372.891577
iter 20 value 1348.461329
final value 1342.435740
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.278668
iter 20 value 1351.061866
final value 1345.179373
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694582
iter 20 value 1352.543501
final value 1346.615819
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.036493
iter 20 value 1351.581956
final value 1344.863241
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.997926
iter 20 value 1351.991055
final value 1345.748290
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.150309
iter 20 value 1352.328790
final value 1346.074189
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411144
iter 20 value 1352.293137
final value 1346.321401
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535947
iter 20 value 1352.935943
final value 1346.519427
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.101700
iter 20 value 1351.899829
final value 1346.031899
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.935996
iter 20 value 1351.111379
final value 1345.361699
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.619859
iter 20 value 1352.240862
final value 1346.361712
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.257999
iter 20 value 1352.301695
final value 1346.291156
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.502372
iter 20 value 1352.234239
final value 1346.354173
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.413767
iter 20 value 1352.325370
final value 1346.477184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758968
iter 20 value 1352.492597
final value 1346.599265
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.727699
iter 20 value 1352.503532
final value 1346.592243
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.867465
iter 20 value 1350.825209
final value 1344.688614
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.577843
iter 20 value 1352.427685
final value 1346.446172
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.420656
iter 20 value 1352.346991
final value 1346.417730
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.512129
iter 20 value 1351.435898
final value 1345.284586
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.016656
iter 20 value 1352.162713
final value 1346.042761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.640933
iter 20 value 1349.521319
final value 1343.348894
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.505090
iter 20 value 1352.793816
final value 1346.494874
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.622314
iter 20 value 1350.701306
final value 1344.470453
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.734085
iter 20 value 1350.302686
final value 1345.576144
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.375316
iter 20 value 1352.296742
final value 1346.364364
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.459149
iter 20 value 1351.479347
final value 1345.479508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.433636
iter 20 value 1352.205392
final value 1346.235990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.813558
iter 20 value 1351.898517
final value 1345.694148
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.640943
iter 20 value 1352.385496
final value 1346.469380
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.911520
iter 20 value 1351.849471
final value 1345.829039
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1372.502159
iter 20 value 1348.502153
final value 1342.747235
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.972797
iter 20 value 1349.400567
final value 1344.284411
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.996823
iter 20 value 1351.768638
final value 1345.965204
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.735559
iter 20 value 1351.594288
final value 1345.573032
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.590703
iter 20 value 1352.531589
final value 1346.534134
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.489210
iter 20 value 1352.364388
final value 1346.394751
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.264118
iter 20 value 1351.097612
final value 1345.126809
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.005680
iter 20 value 1352.027492
final value 1345.881970
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.487004
iter 20 value 1352.571239
final value 1346.470350
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.518966
iter 20 value 1351.758499
final value 1345.510258
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.040822
iter 20 value 1352.090995
final value 1345.968623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.154633
iter 20 value 1352.000052
final value 1346.013710
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.205362
iter 20 value 1353.628715
final value 1346.118603
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.441840
iter 20 value 1352.382496
final value 1346.395656
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.116664
iter 20 value 1352.060148
final value 1346.179126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.720519
iter 20 value 1351.495631
final value 1345.552806
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.560938
iter 20 value 1352.752194
final value 1346.542331
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535682
iter 20 value 1352.324826
final value 1346.428682
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.434927
iter 20 value 1351.383314
final value 1345.504544
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.653791
iter 20 value 1352.569072
final value 1346.586005
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.464466
iter 20 value 1352.412071
final value 1346.477031
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651135
iter 20 value 1352.337850
final value 1346.568696
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.731851
iter 20 value 1350.460727
final value 1344.514737
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.249435
iter 20 value 1351.971459
final value 1346.225860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.201091
iter 20 value 1352.197018
final value 1346.275990
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.410097
iter 20 value 1352.172010
final value 1346.337706
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.172613
iter 20 value 1352.051294
final value 1346.177365
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.617772
iter 20 value 1352.433488
final value 1346.505196
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.226690
iter 20 value 1351.042613
final value 1345.085184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.709926
iter 20 value 1352.228452
final value 1346.520758
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.201267
iter 20 value 1352.245254
final value 1346.174775
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.067155
iter 20 value 1350.001872
final value 1343.881108
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.474331
iter 20 value 1350.382282
final value 1344.311625
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.730314
iter 20 value 1352.538739
final value 1346.598620
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630456
iter 20 value 1352.343007
final value 1346.507816
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.404203
iter 20 value 1352.346207
final value 1346.456732
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.040496
iter 20 value 1351.747698
final value 1346.031937
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528146
iter 20 value 1352.317472
final value 1346.387841
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.068088
iter 20 value 1351.920548
final value 1346.004874
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.149170
iter 20 value 1350.996552
final value 1345.030705
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.135160
iter 20 value 1353.183973
final value 1346.204276
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.950336
iter 20 value 1351.868964
final value 1345.944852
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.634235
iter 20 value 1352.481020
final value 1346.511071
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.507186
iter 20 value 1352.305640
final value 1346.463816
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.794670
iter 20 value 1351.751404
final value 1345.914298
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.658106
iter 20 value 1353.806914
final value 1346.293595
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.394412
iter 20 value 1352.864354
final value 1346.424322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.374345
iter 20 value 1352.691620
final value 1346.429566
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.316027
iter 20 value 1352.688443
final value 1346.318156
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578826
iter 20 value 1352.506187
final value 1346.433488
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.546695
iter 20 value 1352.341962
final value 1346.433518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.768576
iter 20 value 1352.488063
final value 1346.601320
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505387
iter 20 value 1352.193318
final value 1346.438317
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.320405
iter 20 value 1352.187927
final value 1346.274896
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.472441
iter 20 value 1352.368345
final value 1346.364288
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.467249
iter 20 value 1351.302340
final value 1345.252500
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.570331
iter 20 value 1352.509060
final value 1346.545203
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.426140
iter 20 value 1352.319313
final value 1346.370907
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.543141
iter 20 value 1352.713865
final value 1346.458573
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.543775
iter 20 value 1351.300023
final value 1345.465953
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.289868
iter 20 value 1352.268527
final value 1346.254241
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.621899
iter 20 value 1352.447454
final value 1346.504552
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684649
iter 20 value 1352.493618
final value 1346.560806
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.725582
iter 20 value 1352.506817
final value 1346.603744
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688150
iter 20 value 1352.351467
final value 1346.528168
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.758224
iter 20 value 1351.612408
final value 1345.756103
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411961
iter 20 value 1352.244265
final value 1346.379847
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.550086
iter 20 value 1352.819539
final value 1346.557610
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.946771
iter 20 value 1351.743342
final value 1345.705238
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.421055
iter 20 value 1352.239777
final value 1346.356062
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.778106
iter 20 value 1350.779438
final value 1344.399796
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.262594
iter 20 value 1351.165641
final value 1345.226363
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.677620
iter 20 value 1352.533002
final value 1346.569844
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744778
iter 20 value 1352.526997
final value 1346.597491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535895
iter 20 value 1352.843783
final value 1346.496809
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.696912
iter 20 value 1352.435617
final value 1346.484538
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.529294
iter 20 value 1352.434917
final value 1346.452222
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.475255
iter 20 value 1351.271034
final value 1345.310670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.740860
iter 20 value 1352.510810
final value 1346.611382
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.499166
iter 20 value 1352.426538
final value 1346.452459
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.602666
iter 20 value 1352.455548
final value 1346.479475
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.706791
iter 20 value 1352.431817
final value 1346.558386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.984375
iter 20 value 1351.625313
final value 1345.616447
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690510
iter 20 value 1352.528542
final value 1346.583188
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.639190
iter 20 value 1352.372839
final value 1346.491939
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.152139
iter 20 value 1352.162296
final value 1346.003271
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.897580
iter 20 value 1350.836971
final value 1344.754369
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.323415
iter 20 value 1351.281367
final value 1345.200136
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.756494
iter 20 value 1350.580292
final value 1344.737917
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.410146
iter 20 value 1352.815340
final value 1346.387982
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.631873
iter 20 value 1352.419604
final value 1346.517344
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.448691
iter 20 value 1352.524293
final value 1346.451713
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.334015
iter 20 value 1352.269678
final value 1346.151599
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.532512
iter 20 value 1352.500470
final value 1346.522601
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.717274
iter 20 value 1352.536796
final value 1346.609684
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.570213
iter 20 value 1352.671011
final value 1346.428326
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.564359
iter 20 value 1351.173813
final value 1345.452686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.997374
iter 20 value 1351.819134
final value 1345.843392
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.596793
iter 20 value 1353.262362
final value 1346.549622
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.566927
iter 20 value 1352.584954
final value 1346.532848
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649393
iter 20 value 1352.472511
final value 1346.542159
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.376622
iter 20 value 1352.501965
final value 1346.340802
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668554
iter 20 value 1352.609073
final value 1346.597253
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697517
iter 20 value 1352.583983
final value 1346.602915
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.170571
iter 20 value 1352.111238
final value 1345.776254
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.349319
iter 20 value 1352.405567
final value 1345.154377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.651958
iter 20 value 1352.528348
final value 1346.546302
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.383707
iter 20 value 1352.804249
final value 1346.344377
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.804089
iter 20 value 1351.590641
final value 1345.817391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.500425
iter 20 value 1352.413525
final value 1346.433145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.109636
iter 20 value 1352.236030
final value 1346.175183
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694104
iter 20 value 1352.582279
final value 1346.604879
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630358
iter 20 value 1352.478069
final value 1346.552081
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.710484
iter 20 value 1352.499718
final value 1346.595518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.612166
iter 20 value 1351.973299
final value 1346.369173
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.783624
iter 20 value 1352.473127
final value 1346.609008
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.812990
iter 20 value 1352.413236
final value 1346.602406
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.761182
iter 20 value 1352.530986
final value 1346.614337
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.987179
iter 20 value 1352.580182
final value 1346.007231
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.938636
iter 20 value 1351.900372
final value 1345.825690
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.432194
iter 20 value 1352.351504
final value 1346.415504
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.736505
iter 20 value 1352.811162
final value 1345.861516
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.555787
iter 20 value 1352.601614
final value 1345.759274
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.359232
iter 20 value 1352.123782
final value 1346.244952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.422461
iter 20 value 1353.308352
final value 1346.414617
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.573362
iter 20 value 1352.769594
final value 1346.540943
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.487669
iter 20 value 1350.853603
final value 1345.083377
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606501
iter 20 value 1352.821519
final value 1346.551007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.545225
iter 20 value 1351.425134
final value 1345.570879
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.379426
iter 20 value 1352.322606
final value 1346.377190
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.996401
iter 20 value 1349.112764
final value 1344.127151
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.605742
iter 20 value 1352.677089
final value 1346.579678
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.532946
iter 20 value 1352.688578
final value 1346.515807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.375301
iter 20 value 1352.619638
final value 1346.418585
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.671219
iter 20 value 1352.527441
final value 1346.605150
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.643449
iter 20 value 1352.532261
final value 1346.578612
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.429420
iter 20 value 1352.474020
final value 1346.273433
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.548010
iter 20 value 1351.541315
final value 1345.500546
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.411898
iter 20 value 1352.263720
final value 1346.453126
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.535535
iter 20 value 1352.521294
final value 1346.280564
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.677862
iter 20 value 1352.567101
final value 1346.596328
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.779185
iter 20 value 1351.084692
final value 1345.787157
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.379819
iter 20 value 1351.236729
final value 1345.132885
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.828967
iter 20 value 1351.123531
final value 1345.003312
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.624982
iter 20 value 1352.691080
final value 1346.568756
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.196282
iter 20 value 1352.016296
final value 1345.935508
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580171
iter 20 value 1352.617766
final value 1346.550601
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.613749
iter 20 value 1352.677243
final value 1346.563450
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.582773
iter 20 value 1352.748346
final value 1346.543281
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628054
iter 20 value 1352.671088
final value 1346.568664
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610502
iter 20 value 1352.792013
final value 1346.563919
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.473414
iter 20 value 1352.451821
final value 1346.457545
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.435930
iter 20 value 1352.618259
final value 1346.341789
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.052687
iter 20 value 1351.857413
final value 1345.917698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.706654
iter 20 value 1352.589814
final value 1346.593133
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.427795
iter 20 value 1352.184622
final value 1346.407789
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.633263
iter 20 value 1352.411979
final value 1346.498686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.707622
iter 20 value 1352.544041
final value 1346.585769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.344338
iter 20 value 1351.254383
final value 1345.364000
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.693450
iter 20 value 1352.429364
final value 1346.536962
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.138236
iter 20 value 1350.259565
final value 1345.068985
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.699257
iter 20 value 1352.615134
final value 1346.597853
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.534583
iter 20 value 1352.383947
final value 1346.444682
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.697724
iter 20 value 1352.510671
final value 1346.571423
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681998
iter 20 value 1352.647155
final value 1346.588518
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.536075
iter 20 value 1352.340694
final value 1346.425013
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.335793
iter 20 value 1351.772424
final value 1345.992140
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.687314
iter 20 value 1352.394390
final value 1346.559500
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.673958
iter 20 value 1352.573095
final value 1346.598026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.289417
iter 20 value 1352.108143
final value 1346.168700
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.442066
iter 20 value 1352.472857
final value 1346.403175
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.631962
iter 20 value 1352.018389
final value 1346.517021
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.421429
iter 20 value 1351.065111
final value 1345.215101
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.223767
iter 20 value 1351.961533
final value 1346.136477
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.574144
iter 20 value 1352.406431
final value 1346.490336
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.177956
iter 20 value 1351.981988
final value 1346.123164
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.570444
iter 20 value 1352.345430
final value 1346.391861
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.431009
iter 20 value 1352.306879
final value 1346.356511
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.216435
iter 20 value 1351.094964
final value 1345.060930
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.658094
iter 20 value 1352.486612
final value 1346.558353
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.663899
iter 20 value 1352.551259
final value 1346.574367
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.251593
iter 20 value 1351.119042
final value 1345.131268
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.644433
iter 20 value 1352.478347
final value 1346.555429
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.703756
iter 20 value 1352.543751
final value 1346.591449
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.226911
iter 20 value 1351.987840
final value 1346.112464
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.776553
iter 20 value 1351.772681
final value 1345.867152
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.122721
iter 20 value 1351.985419
final value 1346.080123
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.631892
iter 20 value 1352.605379
final value 1346.563589
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.527084
iter 20 value 1352.342874
final value 1346.455585
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.556852
iter 20 value 1352.654238
final value 1346.517176
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.758286
iter 20 value 1352.570593
final value 1346.608129
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608693
iter 20 value 1352.543899
final value 1346.551520
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.618926
iter 20 value 1352.601342
final value 1346.553698
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.620704
iter 20 value 1352.501913
final value 1346.550860
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.558403
iter 20 value 1352.661708
final value 1346.520970
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.728082
iter 20 value 1352.562469
final value 1346.611823
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744003
iter 20 value 1352.508520
final value 1346.590180
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.417861
iter 20 value 1352.844178
final value 1346.338206
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.622815
iter 20 value 1352.526849
final value 1346.557115
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.712206
iter 20 value 1352.548551
final value 1346.616269
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.332221
iter 20 value 1352.111216
final value 1346.217973
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.668532
iter 20 value 1352.540622
final value 1346.586325
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.722405
iter 20 value 1352.476290
final value 1346.578374
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.698964
iter 20 value 1352.563381
final value 1346.570185
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.243768
iter 20 value 1352.162723
final value 1346.179112
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.408784
iter 20 value 1351.135217
final value 1345.215113
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.447228
iter 20 value 1350.106521
final value 1344.244365
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.666006
iter 20 value 1352.609466
final value 1346.551636
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.308485
iter 20 value 1352.108631
final value 1344.988632
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.223016
iter 20 value 1351.061244
final value 1345.060541
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.329713
iter 20 value 1352.714677
final value 1346.405837
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1371.247631
iter 20 value 1346.399462
final value 1340.392172
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.350291
iter 20 value 1352.069123
final value 1346.241544
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.420272
iter 20 value 1351.304646
final value 1345.312287
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.895380
iter 20 value 1351.355150
final value 1345.819379
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.895679
iter 20 value 1350.859176
final value 1344.816953
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.400740
iter 20 value 1352.645241
final value 1346.424453
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.431247
iter 20 value 1351.861917
final value 1346.211519
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.562143
iter 20 value 1352.471789
final value 1346.476033
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580558
iter 20 value 1352.350052
final value 1346.404386
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.881515
iter 20 value 1352.036723
final value 1345.987765
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.676046
iter 20 value 1352.512304
final value 1346.560388
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.637698
iter 20 value 1352.120808
final value 1346.390263
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.079575
iter 20 value 1351.779729
final value 1345.930728
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.883788
iter 20 value 1351.631171
final value 1345.657867
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.262962
iter 20 value 1352.294796
final value 1346.155920
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.716547
iter 20 value 1350.771168
final value 1344.569799
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.723753
iter 20 value 1352.536828
final value 1346.610482
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.281256
iter 20 value 1350.876077
final value 1345.389184
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.537096
iter 20 value 1352.259444
final value 1346.427610
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719670
iter 20 value 1352.557421
final value 1346.603717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.701740
iter 20 value 1352.565459
final value 1346.607145
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.463282
iter 20 value 1352.030178
final value 1346.378975
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.423633
iter 20 value 1352.042726
final value 1346.376434
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.668398
iter 20 value 1352.453431
final value 1346.526445
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.781626
iter 20 value 1351.573823
final value 1345.638442
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.319493
iter 20 value 1352.136137
final value 1346.280111
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.214031
iter 20 value 1352.567837
final value 1346.335799
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.602567
iter 20 value 1352.016298
final value 1345.324391
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.157132
iter 20 value 1351.104734
final value 1345.002759
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661807
iter 20 value 1352.555448
final value 1346.584835
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.312162
iter 20 value 1353.671492
final value 1346.346580
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.239536
iter 20 value 1352.365025
final value 1346.207428
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1376.635668
iter 20 value 1352.240197
final value 1346.423021
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.528143
iter 20 value 1350.564689
final value 1344.293976
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.216515
iter 20 value 1352.801770
final value 1346.243905
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.914928
iter 20 value 1351.865306
final value 1345.834592
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.399676
iter 20 value 1352.762491
final value 1346.448671
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.064145
iter 20 value 1352.108230
final value 1345.971477
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.578995
iter 20 value 1352.492684
final value 1346.391110
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.250124
iter 20 value 1352.262542
final value 1346.236416
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.250039
iter 20 value 1352.028023
final value 1346.249832
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.429380
iter 20 value 1352.666606
final value 1346.399026
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.174145
iter 20 value 1352.378313
final value 1346.179605
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.344770
iter 20 value 1351.288750
final value 1345.128898
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.225614
iter 20 value 1351.159989
final value 1345.008509
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.817183
iter 20 value 1351.711873
final value 1345.628936
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.992318
iter 20 value 1350.920028
final value 1344.769200
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.343120
iter 20 value 1351.989968
final value 1346.232953
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.267129
iter 20 value 1352.458296
final value 1346.289489
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.484499
iter 20 value 1352.155339
final value 1346.317308
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.590563
iter 20 value 1352.385917
final value 1346.461285
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.597600
iter 20 value 1352.424841
final value 1346.435942
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.540888
iter 20 value 1352.397895
final value 1346.443457
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.761336
iter 20 value 1352.582620
final value 1346.600776
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.460071
iter 20 value 1352.283348
final value 1346.358007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.810784
iter 20 value 1352.455261
final value 1345.707623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.240629
iter 20 value 1352.148459
final value 1346.129901
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.620342
iter 20 value 1352.610722
final value 1346.565393
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.550444
iter 20 value 1352.465024
final value 1346.477082
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.647043
iter 20 value 1352.555136
final value 1346.569015
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.649807
iter 20 value 1352.395918
final value 1346.561719
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.545473
iter 20 value 1352.111988
final value 1346.387382
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.038731
iter 20 value 1352.228130
final value 1346.038773
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.568020
iter 20 value 1352.496538
final value 1346.532975
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664752
iter 20 value 1352.587319
final value 1346.562769
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746366
iter 20 value 1352.557582
final value 1346.614156
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.246415
iter 20 value 1352.292833
final value 1346.255789
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.664968
iter 20 value 1352.653674
final value 1346.590053
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.699264
iter 20 value 1352.664796
final value 1346.605856
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.232067
iter 20 value 1352.143649
final value 1346.154623
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.278449
iter 20 value 1352.138216
final value 1346.161321
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.681595
iter 20 value 1352.559839
final value 1346.570708
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.719455
iter 20 value 1352.565116
final value 1346.604121
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.324203
iter 20 value 1352.366400
final value 1346.180666
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.975428
iter 20 value 1350.386281
final value 1345.063187
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.772318
iter 20 value 1352.548173
final value 1346.595406
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.746376
iter 20 value 1352.567803
final value 1346.599648
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.495324
iter 20 value 1352.435170
final value 1346.518883
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.542427
iter 20 value 1352.306080
final value 1346.432122
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.604992
iter 20 value 1353.418090
final value 1346.546102
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.690174
iter 20 value 1352.528218
final value 1346.571669
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.475366
iter 20 value 1351.995401
final value 1346.273526
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.502184
iter 20 value 1352.584702
final value 1346.459751
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.744130
iter 20 value 1352.492309
final value 1346.595695
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.610415
iter 20 value 1352.740259
final value 1346.521872
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.705585
iter 20 value 1352.579125
final value 1346.610012
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1375.710247
iter 20 value 1351.788541
final value 1345.625230
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.890816
iter 20 value 1351.651399
final value 1345.727531
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624074
iter 20 value 1352.412061
final value 1346.481686
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.732858
iter 20 value 1352.564101
final value 1346.599807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.824035
iter 20 value 1352.531376
final value 1346.572209
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.457543
iter 20 value 1352.009559
final value 1346.318646
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.886738
iter 20 value 1351.691396
final value 1345.854016
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.951961
iter 20 value 1349.856482
final value 1344.709733
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.778233
iter 20 value 1350.876949
final value 1345.476558
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1376.514480
iter 20 value 1352.599278
final value 1346.510273
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.661548
iter 20 value 1352.495707
final value 1346.551937
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.694425
iter 20 value 1352.434433
final value 1346.549922
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.787147
iter 20 value 1352.454311
final value 1346.586642
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.890401
iter 20 value 1351.671450
final value 1345.833368
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.436446
iter 20 value 1352.054534
final value 1346.406761
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.777685
iter 20 value 1351.329604
final value 1345.829356
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.636829
iter 20 value 1352.315951
final value 1346.517054
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.520483
iter 20 value 1351.329267
final value 1345.467699
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.591098
iter 20 value 1352.737233
final value 1346.564137
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.813534
iter 20 value 1351.515191
final value 1345.832209
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.830622
iter 20 value 1351.466533
final value 1345.471172
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.778357
iter 20 value 1351.004063
final value 1345.661308
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.236641
iter 20 value 1354.093256
final value 1346.294259
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.053949
iter 20 value 1351.720211
final value 1345.953608
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.955463
iter 20 value 1351.758290
final value 1346.008478
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.767506
iter 20 value 1352.576670
final value 1346.606303
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.245356
iter 20 value 1352.100406
final value 1346.218471
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.739356
iter 20 value 1352.313764
final value 1346.540164
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.248617
iter 20 value 1351.897850
final value 1346.068143
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.624520
iter 20 value 1352.777469
final value 1346.511981
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.498397
iter 20 value 1352.265929
final value 1346.352197
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.734463
iter 20 value 1350.560340
final value 1344.547852
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.583006
iter 20 value 1351.117576
final value 1345.700310
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.700761
iter 20 value 1352.552395
final value 1346.612307
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.107339
iter 20 value 1351.086699
final value 1345.124519
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.935990
iter 20 value 1351.798280
final value 1345.892096
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.498562
iter 20 value 1352.495170
final value 1346.437531
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.121670
iter 20 value 1352.042087
final value 1346.028980
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.883143
iter 20 value 1351.778678
final value 1345.878171
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.547536
iter 20 value 1352.346851
final value 1346.447873
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.275900
iter 20 value 1352.050254
final value 1346.108019
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.375868
iter 20 value 1352.223313
final value 1346.377075
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.680440
iter 20 value 1352.591847
final value 1346.612225
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.727803
iter 20 value 1351.532035
final value 1345.547359
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.622409
iter 20 value 1352.271568
final value 1346.466220
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.686116
iter 20 value 1352.417026
final value 1346.576919
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580676
iter 20 value 1352.498984
final value 1346.493107
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.515881
iter 20 value 1352.371271
final value 1346.408962
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.688153
iter 20 value 1352.383356
final value 1346.534513
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606926
iter 20 value 1352.372713
final value 1346.524807
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.658710
iter 20 value 1350.479571
final value 1344.611679
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.505026
iter 20 value 1352.316412
final value 1346.436048
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.403071
iter 20 value 1351.221789
final value 1345.233127
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.432710
iter 20 value 1352.074842
final value 1346.303076
converged
# weights: 27 (16 variable)

```

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initial value 4312.053233
iter 10 value 1375.324627
iter 20 value 1351.080247
final value 1345.259007
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.071636
iter 20 value 1351.013764
final value 1345.024943
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.611070
iter 20 value 1352.395909
final value 1346.488952
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.565475
iter 20 value 1351.347836
final value 1345.509644
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.628696
iter 20 value 1352.383410
final value 1346.497180
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.550268
iter 20 value 1349.510760
final value 1343.384994
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.964092
iter 20 value 1352.354651
final value 1345.603090
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.502210
iter 20 value 1352.439636
final value 1346.386499
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.667596
iter 20 value 1352.464823
final value 1346.477114
converged
# weights: 27 (16 variable)

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initial value 4312.053233
iter 10 value 1376.637992
iter 20 value 1352.622252
final value 1346.525089
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.606300
iter 20 value 1352.480217
final value 1346.530123
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.630969
iter 20 value 1352.490991
final value 1346.541977
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.753814
iter 20 value 1351.812343
final value 1345.365260
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.528602
iter 20 value 1352.449537
final value 1346.495491
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.735847
iter 20 value 1352.443462
final value 1346.574322
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.579338
iter 20 value 1351.380778
final value 1345.529075
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.580921
iter 20 value 1352.345224
final value 1346.509202
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.656356
iter 20 value 1350.459984
final value 1344.462694
converged
# weights: 27 (16 variable)

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```

initial value 4312.053233
iter 10 value 1376.855309
iter 20 value 1352.517530
final value 1346.302667
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.059613
iter 20 value 1352.264278
final value 1345.559120
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.416529
iter 20 value 1352.284777
final value 1346.247580
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.684076
iter 20 value 1352.463599
final value 1346.586131
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.601375
iter 20 value 1352.509041
final value 1346.558532
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.643116
iter 20 value 1352.500372
final value 1346.577717
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.800259
iter 20 value 1350.962191
final value 1344.842239
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.555316
iter 20 value 1351.344269
final value 1345.329886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.565742
iter 20 value 1352.407119
final value 1346.541458
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.216328
iter 20 value 1351.068518
final value 1345.043376
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.779265
iter 20 value 1349.861552
final value 1343.497743
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.608008
iter 20 value 1352.357378
final value 1346.476886
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.613122
iter 20 value 1352.005902
final value 1345.682035
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1373.899074
iter 20 value 1349.934144
final value 1343.606358
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.290300
iter 20 value 1352.265180
final value 1346.320115
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1371.579606
iter 20 value 1347.616256
final value 1341.376132
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.852435
iter 20 value 1351.968613
final value 1345.866217
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.377357
iter 20 value 1351.345367
final value 1345.082860
converged
# weights: 27 (16 variable)

```

```

initial value 4312.053233
iter 10 value 1375.613459
iter 20 value 1351.139609
final value 1345.275265
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.504617
iter 20 value 1352.606178
final value 1346.540682
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.215127
iter 20 value 1351.799498
final value 1346.116670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1374.185308
iter 20 value 1350.184333
final value 1343.959370
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.393544
iter 20 value 1352.635326
final value 1346.469968
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.373058
iter 20 value 1352.600875
final value 1346.341863
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.265275
iter 20 value 1352.901812
final value 1346.173670
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.254550
iter 20 value 1351.133066
final value 1345.076795
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1375.095096
iter 20 value 1350.915559
final value 1345.044258
converged
# weights: 27 (16 variable)

```



```

initial value 4312.053233
iter 10 value 1376.619180
iter 20 value 1352.688034
final value 1346.534378
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.549267
iter 20 value 1352.552783
final value 1346.517956
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.407467
iter 20 value 1352.464827
final value 1346.399057
converged
# weights: 27 (16 variable)
initial value 4312.053233
iter 10 value 1376.380989
iter 20 value 1352.098989
final value 1346.303957
converged

```

```

#hitrate
mean(hit) #### LOOCV

```

```
[1] 0.8555782
```

Error rate: 0.1444218

The Multinomial logistic regression model has slightly better error values than the other models, except for KNN.