

Chapter 6

Multiple Regression Analysis - Further Issues

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Data Scaling & Units of Measurement

Smoking and Birthweight

Estimate and compare the following regressions for a baby's birth weight on an expecting mother's smoking using the *bwght* data (preloaded with this tutorial):

1. $BirthWeight_{oz} = \beta_0 + \beta_1 Cigarettes + \beta_2 Income + u$: (bwght.lm1)
2. $BirthWeight_{lbs} = \beta_0 + \beta_1 Cigarettes + \beta_2 Income + u$: (bwght.lm2)
3. $BirthWeight_{oz} = \beta_0 + \beta_1 Packs + \beta_2 Income + u$: (bwght.lm3)

Where:

$BirthWeight_{oz}$ Birthweight in ounces, **bwght**

$BirthWeight_{lbs}$ Birthweight in pounds, **bwghtlbs**

Cigarettes Cigarettes the mother smoked per day during pregnancy, **cigs**

Packs Packs of cigarettes the mother smoked per day during pregnancy, **packs**

Income Family Income, **faminc**

Summarize your output in a text table using **stargazer()**

```
bwght.lm1 <- lm(bwght ~ cigs + faminc, data = bwght)
bwght.lm2 <- lm(bwghtlbs ~ cigs + faminc, data = bwght)
bwght.lm3 <- lm(bwght ~ packs + faminc, data = bwght)
stargazer(bwght.lm1, bwght.lm2, bwght.lm3, type = 'text')
```

```

##
## =====
##                               Dependent variable:
##                               -----
##                               bwght   bwghtlbs   bwght
##                               (1)      (2)      (3)
## -----
## cigs          -0.463***  -0.029***
##                (0.092)   (0.006)
##
## packs                      -9.268***
##                               (1.832)
##
## faminc         0.093***  0.006***  0.093***
##                (0.029)   (0.002)   (0.029)
##
## Constant      116.974***  7.311***  116.974***
##                (1.049)   (0.066)   (1.049)
## -----
## Observations    1,388      1,388      1,388
## R2              0.030      0.030      0.030
## Adjusted R2     0.028      0.028      0.028
## Residual Std. Error (df = 1385)  20.063      1.254      20.063
## F Statistic (df = 2; 1385)    21.274***  21.274***  21.274***
## =====
## Note:           *p<0.1; **p<0.05; ***p<0.01

```

Standardized Coefficients and Elasticities

To compare coefficients that have different units or that might be scaled differently, we can interpret the results a few different ways:

1. Transform the raw data (X and y) as zscores (subtract the mean and dividing by the standard deviation).
2. Calculate the standardied coefficients:

$$\hat{b}_j = \frac{\hat{\sigma}_{x_j}}{\hat{\sigma}_y} \hat{\beta}_j$$

3. Calculate the elasticities:

$$E_{yx_j} = \frac{\% \Delta y}{\% \Delta x_j} = \frac{\Delta y / y}{\Delta x_j / x_j} = \beta_j \left(\frac{\bar{x}_j}{\bar{y}} \right)$$

Note: (1) and (2) are numerically equivalent. Also, in all of the cases, we can standardize partially, which usually means standardizing the x variable(s), but not y .

Standardizing Variables

Estimate the models `bwght.lm1`, `bwght.lm2`, and `bwght.lm3` using the standardized transformations of the variables with the `scale()` function and output all three results with a text *stargazer* table. Name them *bwght.lm4*, *bwght.lm5*, and *bwght.lm6*.

```
bwght.lm4 <- lm(scale(bwght) ~ scale(cigs) + scale(faminc), data = bwght)
bwght.lm5 <- lm(scale(bwghtlbs) ~ scale(cigs) + scale(faminc), data = bwght)
bwght.lm6 <- lm(scale(bwght) ~ scale(packs) + scale(faminc), data = bwght)
stargazer(bwght.lm4, bwght.lm5, bwght.lm6, type = 'text')
```

```
##
## =====
##                               Dependent variable:
##                               -----
##                               scale(bwght) scale(bwghtlbs) scale(bwght)
##                               (1)         (2)         (3)
## -----
```

```
## scale(cigs)          -0.136***    -0.136***
##                      (0.027)      (0.027)
##
## scale(packs)          -0.136***
##                      (0.027)
##
## scale(faminc)         0.085***    0.085***    0.085***
##                      (0.027)      (0.027)      (0.027)
##
## Constant             0.000        0.000        0.000
##                      (0.026)      (0.026)      (0.026)
##
## -----
## Observations         1,388        1,388        1,388
## R2                   0.030        0.030        0.030
## Adjusted R2          0.028        0.028        0.028
## Residual Std. Error (df = 1385) 0.986        0.986        0.986
## F Statistic (df = 2; 1385) 21.274***    21.274***    21.274***
## =====
## Note:                  *p<0.1; **p<0.05; ***p<0.01
```

Standardizing Coefficients

Calculate the beta coefficients for the original coefficients, excluding the intercept. (Hint: `sapply(list, function)` returns a simple vector you get from *applying* a function to an list of variables; `bwght.lm1(model)` pulls the variables *and observations* included in `bwght.lm1`, including `y`.)

```
bwght.lm1$coefficients[-1]*sapply(bwght.lm1$model, sd)[-1]/sd(bwght.lm1$model$bwght)
```

```
##      cigs      faminc
## -0.13598278  0.08540571
```

```
bwght.lm2$coefficients[-1]*sapply(bwght.lm2$model, sd)[-1]/sd(bwght.lm2$model$bwght)
```

```
##      cigs      faminc
## -0.13598278  0.08540571
```

```
bwght.lm3$coefficients[-1]*sapply(bwght.lm3$model, sd)[-1]/sd(bwght.lm3$model$bwght)
```

```
##      packs      faminc
## -0.13598278  0.08540571
```

Elasticities *at the Mean*

The simplest way to calculate the elasticity is to note that:

$$E = \frac{dy/y}{dx/x} = \frac{dy}{dx} \cdot \frac{x}{y}$$

Evaluating this expression at the sample means of x and y gives

$$E_{MEM} = \frac{dy}{dx} \cdot \frac{\bar{x}}{\bar{y}}$$

which is a good approximation of the elasticity called the *marginal effect at the mean (MEM)*. The (right-hand side) partial elasticity using the MEM formula would be:

$$E_{MEM} = \frac{dy}{dx/\bar{x}} = \frac{dy}{dx} \cdot \bar{x}.$$

Calculate the full and partial elasticities for `bwght.lm1` using the `sapply` function (except applying the mean to the model data frame instead of standard deviation).

```
bwght.lm1$coefficients[-1]*sapply(bwght.lm1$model, mean)[-1]/mean(bwght.lm1$model$bwght)
```

```
##      cigs      faminc
## -0.008148412  0.022684583
```

```
bwght.lm1$coefficients[-1]*sapply(bwght.lm1$model, mean)[-1]
```

```
##      cigs      faminc
## -0.967213  2.692650
```

Average Elasticities

A better calculation of the elasticity for a model estimated in levels uses the concept of the *average marginal effect (AME)*.

Implementing AME starts from the same point,

$$E = \frac{dy/y}{dx/x} = \frac{dy}{dx} \cdot \frac{x}{y},$$

but then inserts each individual observation's *observed* value,

$$E_i = \frac{d\hat{y}_i}{dx_i} \cdot \frac{x_i}{\hat{y}_i},$$

and averages them:

$$E_{AME} = \sum_{i=1}^n \frac{d\hat{y}_i}{dx_i} \cdot \frac{x_i}{\hat{y}_i}$$

The (right-hand side) partial elasticities would be:

$$E_{AME} = \sum_{i=1}^n \frac{d\hat{y}_i}{dx_i} \cdot x_i$$

Estimate the full and partial elasticities for the `bwght.lm1` estimates using `marginaleffects::marginaleffects()`.

```
marginaleffects(bwght.lm1, slope = 'eyex')
```

##	rowid	type	term	contrast	dydx	std.error	statistic
## 1	1	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 2	2	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 3	3	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 4	4	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 5	5	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 6	6	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 7	7	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 8	8	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 9	9 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 10	10 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 11	11 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 12	12 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 13	13 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 14	14 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 15	15 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 16	16 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 17	17 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 18	18 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 19	19 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 20	20 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 21	21 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 22	22 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 23	23 response	cigs	eY/eX	-0.0240457342	0.0048140893	-4.994867
## 24	24 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 25	25 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 26	26 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 27	27 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 28	28 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 29	29 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 30	30 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 31	31 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 32	32 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 33	33 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 34	34 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 35	35 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 36	36 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 37	37 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 38	38 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 39	39 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 40	40 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 41	41 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 42	42 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 43	43 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 44	44 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 45	45 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 46	46 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 47	47 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 48	48 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 49	49 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 50	50 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 51	51 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 52	52 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 53	53 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 54	54 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 55	55 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 56	56 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 57	57 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 58	58 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 59	59 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 60	60 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 61	61 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 62	62 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 63	63 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 64	64 response	cigs	eY/eX	-0.0412334042	0.0083690533	-4.926890
## 65	65 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 66	66 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 67	67 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 68	68 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 69	69 response	cigs	eY/eX	-0.0854981933	0.0181151009	-4.719719
## 70	70 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 71	71 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 72	72 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 73	73 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 74	74 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 75	75 response	cigs	eY/eX	-0.1850780393	0.0429055270	-4.313618
## 76	76 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 77	77 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 78	78 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 79	79 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 80	80 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 81	81 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 82	82 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 83	83 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 84	84 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 85	85 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 86	86 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 87	87 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 88	88 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 89	89 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 90	90 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 91	91 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 92	92 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 93	93 response	cigs	eY/eX	-0.0409965320	0.0083301980	-4.921435
## 94	94 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 95	95 response	cigs	eY/eX	-0.0407956541	0.0082976901	-4.916507
## 96	96 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 97	97 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 98	98 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 99	99 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 100	100 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 101	101 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 102	102 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 103	103 response	cigs	eY/eX	-0.0119178247	0.0023558501	-5.058821
## 104	104 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 105	105 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 106	106 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 107	107 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 108	108 response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
## 109	109 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 110	110 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 111	111 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 112	112 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 113	113 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 114	114 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 115	115 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 116	116 response	cigs	eY/eX	-0.0833581811	0.0177400729	-4.698863
## 117	117 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 118	118 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 119	119 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 120	120 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 121	121 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 122	122 response	cigs	eY/eX	-0.1871582385	0.0433588811	-4.316491
## 123	123 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 124	124 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 125	125 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 126	126	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 127	127	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 128	128	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 129	129	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 130	130	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 131	131	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 132	132	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 133	133	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 134	134	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 135	135	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 136	136	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 137	137	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 138	138	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 139	139	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 140	140	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 141	141	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 142	142	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 143	143	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 144	144	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 145	145	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 146	146	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 147	147	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 148	148	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 149	149	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 150	150	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 151	151	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 152	152	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 153	153	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 154	154	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 155	155	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 156	156	response	cigs	eY/eX	-0.0156907318	0.0031271735	-5.017544
## 157	157	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 158	158	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 159	159	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 160	160	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 161	161	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 162	162	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 163	163	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 164	164	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 165	165	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 166	166	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 167	167	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 168	168	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 169	169	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 170	170	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 171	171	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 172	172	response	cigs	eY/eX	-0.0200703867	0.0039969793	-5.021389
## 173	173	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 174	174	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 175	175	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 176	176	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 177	177	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 178	178	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 179	179	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 180	180	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 181	181	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 182	182	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 183	183	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 184	184	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 185	185	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 186	186	response	cigs	eY/eX	-0.0401723294	0.0081993096	-4.899477
## 187	187	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 188	188	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 189	189	response	cigs	eY/eX	-0.0826684531	0.0176235111	-4.690805
## 190	190	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 191	191	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 192	192	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 193	193	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 194	194	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 195	195	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 196	196	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 197	197	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 198	198	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 199	199	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 200	200	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 201	201	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 202	202	response	cigs	eY/eX	-0.0318817110	0.0064553128	-4.938833
## 203	203	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 204	204	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 205	205	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 206	206	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 207	207	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 208	208	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 209	209	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 210	210	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 211	211	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 212	212	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 213	213	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 214	214	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 215	215	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 216	216	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 217	217	response	cigs	eY/eX	-0.0157525797	0.0031362051	-5.022815
## 218	218	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 219	219	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 220	220	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 221	221	response	cigs	eY/eX	-0.0837073792	0.0177998626	-4.702698
## 222	222	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 223	223	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 224	224	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 225	225	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 226	226	response	cigs	eY/eX	-0.0407291315	0.0082870129	-4.914815
## 227	227	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 228	228	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 229	229	response	cigs	eY/eX	-0.0489944370	0.0100626272	-4.868951
## 230	230	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 231	231	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 232	232	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 233	233	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 234	234	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 235	235	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 236	236	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 237	237	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 238	238	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 239	239	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 240	240	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 241	241	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 242	242	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 243	243	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 244	244	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 245	245	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 246	246	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 247	247	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 248	248	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 249	249	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 250	250	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 251	251	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 252	252	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 253	253	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 254	254	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 255	255	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 256	256	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 257	257	response	cigs	eY/eX	-0.0847727507	0.0179856220	-4.713362
## 258	258	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 259	259	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 260	260	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 261	261	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 262	262	response	cigs	eY/eX	-0.0407956541	0.0082976901	-4.916507
## 263	263	response	cigs	eY/eX	-0.0401723294	0.0081993096	-4.899477
## 264	264	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 265	265	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 266	266	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 267	267	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 268	268	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 269	269	response	cigs	eY/eX	-0.0855714210	0.0181283095	-4.720320
## 270	270	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 271	271	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 272	272	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 273	273	response	cigs	eY/eX	-0.0851339267	0.0180497758	-4.716620
## 274	274	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 275	275	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 276	276	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 277	277	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 278	278	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 279	279	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 280	280	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 281	281	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 282	282 response	cigs	eY/eX	-0.0156907318	0.0031271735	-5.017544
## 283	283 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 284	284 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 285	285 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 286	286 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 287	287 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 288	288 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 289	289 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 290	290 response	cigs	eY/eX	-0.0038770575	0.0007637148	-5.076578
## 291	291 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 292	292 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 293	293 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 294	294 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 295	295 response	cigs	eY/eX	-0.0847008830	0.0179729288	-4.712692
## 296	296 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 297	297 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 298	298 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 299	299 response	cigs	eY/eX	-0.1835479850	0.0425779222	-4.310872
## 300	300 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 301	301 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 302	302 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 303	303 response	cigs	eY/eX	-0.0857918588	0.0181682274	-4.722082
## 304	304 response	cigs	eY/eX	-0.0406297535	0.0082711426	-4.912230
## 305	305 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 306	306 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 307	307 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 308	308 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 309	309 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 310	310 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 311	311 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 312	312 response	cigs	eY/eX	-0.0407623657	0.0082923417	-4.915664
## 313	313 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 314	314 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 315	315 response	cigs	eY/eX	-0.0857182534	0.0181548725	-4.721501
## 316	316 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 317	317 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 318	318 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 319	319 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 320	320 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 321	321 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 322	322 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 323	323 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 324	324 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 325	325 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 326	326 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 327	327 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 328	328 response	cigs	eY/eX	-0.0631520942	0.0130876030	-4.825337
## 329	329 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 330	330 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 331	331 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 332	332 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 333	333 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 334	334 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 335	335 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 336	336 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 337	337 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 338	338 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 339	339 response	cigs	eY/eX	-0.0851339267	0.0180497758	-4.716620
## 340	340 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 341	341 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 342	342 response	cigs	eY/eX	-0.0833581811	0.0177400729	-4.698863
## 343	343 response	cigs	eY/eX	-0.0487950343	0.0100306242	-4.864606
## 344	344 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 345	345 response	cigs	eY/eX	-0.0325304980	0.0065562171	-4.961779
## 346	346 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 347	347 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 348	348 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 349	349 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 350	350 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 351	351 response	cigs	eY/eX	-0.0612423726	0.0127674380	-4.796763
## 352	352 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 353	353 response	cigs	eY/eX	-0.0411654476	0.0083578475	-4.925365
## 354	354 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 355	355 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 356	356 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 357	357 response	cigs	eY/eX	-0.0401723294	0.0081993096	-4.899477
## 358	358 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 359	359 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 360	360 response	cigs	eY/eX	-0.0853521132	0.0180888281	-4.718499
## 361	361 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 362	362 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 363	363 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 364	364 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 365	365 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 366	366 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 367	367 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 368	368 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 369	369 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 370	370 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 371	371 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 372	372 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 373	373 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 374	374 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 375	375 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 376	376 response	cigs	eY/eX	-0.0410639316	0.0083411958	-4.923027
## 377	377 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 378	378 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 379	379 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 380	380 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 381	381 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 382	382 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 383	383 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 384	384 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 385	385 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 386	386 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 387	387 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 388	388 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 389	389 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 390	390 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 391	391 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 392	392 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 393	393 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 394	394 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 395	395 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 396	396 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 397	397 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 398	398 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 399	399	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 400	400	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 401	401	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 402	402	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 403	403	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 404	404	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 405	405	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 406	406	response	cigs	eY/eX	-0.0857182534	0.0181548725	-4.721501
## 407	407	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 408	408	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 409	409	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 410	410	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 411	411	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 412	412	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 413	413	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 414	414	response	cigs	eY/eX	-0.0859394493	0.0181950855	-4.723223
## 415	415	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 416	416	response	cigs	eY/eX	-0.0160563673	0.0031819372	-5.046098
## 417	417	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 418	418	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 419	419	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 420	420	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 421	421	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 422	422	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 423	423	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 424	424	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 425	425	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 426	426	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 427	427	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 428	428	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 429	429	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 430	430	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 431	431	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 432	432	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 433	433	response	cigs	eY/eX	-0.0857182534	0.0181548725	-4.721501
## 434	434	response	cigs	eY/eX	-0.0408623943	0.0083084461	-4.918175
## 435	435	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 436	436	response	cigs	eY/eX	-0.1304753663	0.0289747892	-4.503065
## 437	437	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 438	438	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 439	439	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 440	440	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 441	441	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 442	442	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 443	443	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 444	444	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 445	445	response	cigs	eY/eX	-0.0612423726	0.0127674380	-4.796763
## 446	446	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 447	447	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 448	448	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 449	449	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 450	450	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 451	451	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 452	452	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 453	453	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 454	454	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 455	455	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 456	456	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 457	457	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 458	458	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 459	459	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 460	460	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 461	461	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 462	462	response	cigs	eY/eX	-0.0617470300	0.0128498368	-4.805277
## 463	463	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 464	464	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 465	465	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 466	466	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 467	467	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 468	468	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 469	469	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 470	470	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 471	471	response	cigs	eY/eX	-0.0200865270	0.0039994730	-5.022293
## 472	472	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 473	473	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 474	474	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 475	475	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 476	476	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 477	477 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 478	478 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 479	479 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 480	480 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 481	481 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 482	482 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 483	483 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 484	484 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 485	485 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 486	486 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 487	487 response	cigs	eY/eX	-0.0849890876	0.0180239756	-4.715335
## 488	488 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 489	489 response	cigs	eY/eX	-0.0849168527	0.0180111451	-4.714684
## 490	490 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 491	491 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 492	492 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 493	493 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 494	494 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 495	495 response	cigs	eY/eX	-0.0201513485	0.0040095426	-5.025847
## 496	496 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 497	497 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 498	498 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 499	499 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 500	500 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 501	501 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 502	502 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 503	503 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 504	504 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 505	505 response	cigs	eY/eX	-0.0851339267	0.0180497758	-4.716620
## 506	506 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 507	507 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 508	508 response	cigs	eY/eX	-0.0196133457	0.0039285140	-4.992561
## 509	509 response	cigs	eY/eX	-0.0199103994	0.0039725469	-5.011999
## 510	510 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 511	511 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 512	512 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 513	513 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 514	514 response	cigs	eY/eX	-0.1334972145	0.0295587847	-4.516330
## 515	515 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 516	516 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 517	517 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 518	518 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 519	519 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 520	520 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 521	521 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 522	522 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 523	523 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 524	524 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 525	525 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 526	526 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 527	527 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 528	528 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 529	529 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 530	530 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 531	531 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 532	532 response	cigs	eY/eX	-0.0391491482	0.0080454311	-4.866010
## 533	533 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 534	534 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 535	535 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 536	536 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 537	537 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 538	538 response	cigs	eY/eX	-0.0235359319	0.0047378441	-4.967646
## 539	539 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 540	540 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 541	541 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 542	542 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 543	543 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 544	544 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 545	545 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 546	546 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 547	547 response	cigs	eY/eX	-0.0853521132	0.0180888281	-4.718499
## 548	548 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 549	549 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 550	550 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 551	551 response	cigs	eY/eX	-0.0195366411	0.0039174131	-4.987128
## 552	552 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 553	553 response	cigs	eY/eX	-0.0814885019	0.0174286356	-4.675553
## 554	554 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 555	555 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 556	556 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 557	557 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 558	558 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 559	559 response	cigs	eY/eX	-0.0405967352	0.0082658909	-4.911356
## 560	560 response	cigs	eY/eX	-0.0075920518	0.0015128504	-5.018376
## 561	561 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 562	562 response	cigs	eY/eX	-0.0196133457	0.0039285140	-4.992561
## 563	563 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 564	564 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 565	565 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 566	566 response	cigs	eY/eX	-0.0038620706	0.0007616174	-5.070880
## 567	567 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 568	568 response	cigs	eY/eX	-0.0840595152	0.0178606971	-4.706396
## 569	569 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 570	570 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 571	571 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 572	572 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 573	573 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 574	574 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 575	575 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 576	576 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 577	577 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 578	578 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 579	579 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 580	580 response	cigs	eY/eX	-0.0406959516	0.0082817035	-4.913959
## 581	581 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 582	582 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 583	583 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 584	584 response	cigs	eY/eX	-0.0407956541	0.0082976901	-4.916507
## 585	585 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 586	586 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 587	587 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 588	588 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 589	589 response	cigs	eY/eX	-0.0855714210	0.0181283095	-4.720320
## 590	590 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 591	591 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 592	592 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 593	593 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 594	594 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 595	595 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 596	596 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 597	597 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 598	598 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 599	599 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 600	600 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 601	601 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 602	602 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 603	603 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 604	604 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 605	605 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 606	606 response	cigs	eY/eX	-0.0852065315	0.0180627460	-4.717252
## 607	607 response	cigs	eY/eX	-0.0856447743	0.0181415666	-4.720914
## 608	608 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 609	609 response	cigs	eY/eX	-0.0120037368	0.0023688808	-5.067261
## 610	610 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 611	611 response	cigs	eY/eX	-0.0401723294	0.0081993096	-4.899477
## 612	612 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 613	613 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 614	614 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 615	615 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 616	616 response	cigs	eY/eX	-0.0852065315	0.0180627460	-4.717252
## 617	617 response	cigs	eY/eX	-0.1843948775	0.0427586507	-4.312458
## 618	618 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 619	619 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 620	620 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 621	621 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 622	622 response	cigs	eY/eX	-0.0837073792	0.0177998626	-4.702698
## 623	623 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 624	624 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 625	625 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 626	626 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 627	627 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 628	628 response	cigs	eY/eX	-0.0325835436	0.0065646973	-4.963449
## 629	629 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 630	630 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 631	631 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 632	632 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 633	633 response	cigs	eY/eX	-0.0410977146	0.0083467256	-4.923813
## 634	634 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 635	635 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 636	636 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 637	637 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 638	638 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 639	639 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 640	640 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 641	641 response	cigs	eY/eX	-0.0277857649	0.0056036513	-4.958511
## 642	642 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 643	643 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 644	644 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 645	645 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 646	646 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 647	647 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 648	648 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 649	649 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 650	650 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 651	651 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 652	652 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 653	653 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 654	654 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 655	655 response	cigs	eY/eX	-0.0321380954	0.0064945786	-4.948450
## 656	656 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 657	657 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 658	658 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 659	659 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 660	660 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 661	661 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 662	662 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 663	663 response	cigs	eY/eX	-0.0855714210	0.0181283095	-4.720320
## 664	664 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 665	665 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 666	666 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 667	667 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 668	668 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 669	669 response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
## 670	670 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 671	671 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 672	672 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 673	673 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 674	674 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 675	675 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 676	676 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 677	677 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 678	678 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 679	679 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 680	680 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 681	681 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 682	682 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 683	683 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 684	684 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 685	685 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 686	686 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 687	687 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 688	688 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 689	689 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 690	690 response	cigs	eY/eX	-0.0847727507	0.0179856220	-4.713362
## 691	691 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 692	692 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 693	693 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 694	694 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 695	695 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 696	696 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 697	697 response	cigs	eY/eX	-0.0196906549	0.0039398121	-4.997866
## 698	698 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 699	699 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 700	700 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 701	701 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 702	702 response	cigs	eY/eX	-0.0404980014	0.0082502495	-4.908700
## 703	703 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 704	704 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 705	705 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 706	706 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 707	707 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 708	708 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 709	709 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 710	710 response	cigs	eY/eX	-0.0837073792	0.0177998626	-4.702698

## 711	711 response	cigs	eY/eX	-0.0612423726	0.0127674380	-4.796763
## 712	712 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 713	713 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 714	714 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 715	715 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 716	716 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 717	717 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 718	718 response	cigs	eY/eX	-0.0277857649	0.0056036513	-4.958511
## 719	719 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 720	720 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 721	721 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 722	722 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 723	723 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 724	724 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 725	725 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 726	726 response	cigs	eY/eX	-0.0620024905	0.0128921356	-4.809327
## 727	727 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 728	728 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 729	729 response	cigs	eY/eX	-0.0038620706	0.0007616174	-5.070880
## 730	730 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 731	731 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 732	732 response	cigs	eY/eX	-0.0609931248	0.0127272967	-4.792308
## 733	733 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 734	734 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 735	735 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 736	736 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 737	737 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 738	738 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 739	739 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 740	740 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 741	741 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 742	742 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 743	743 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 744	744 response	cigs	eY/eX	-0.0199421925	0.0039773612	-5.013925
## 745	745 response	cigs	eY/eX	-0.0391491482	0.0080454311	-4.866010
## 746	746 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 747	747 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 748	748 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 749	749 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 750	750 response	cigs	eY/eX	-0.0473497181	0.0098074805	-4.827919
## 751	751 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 752	752 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 753	753 response	cigs	eY/eX	-0.0391491482	0.0080454311	-4.866010
## 754	754 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 755	755 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 756	756 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 757	757 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 758	758 response	cigs	eY/eX	-0.0396935254	0.0081261754	-4.884650
## 759	759 response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
## 760	760 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 761	761 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 762	762 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 763	763 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 764	764 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 765	765 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 766	766 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 767	767 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 768	768 response	cigs	eY/eX	-0.0156293677	0.0031183018	-5.012141
## 769	769 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 770	770 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 771	771 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 772	772 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 773	773 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 774	774 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 775	775 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 776	776 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 777	777 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 778	778 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 779	779 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 780	780 response	cigs	eY/eX	-0.0160177546	0.0031759940	-5.043383
## 781	781 response	cigs	eY/eX	-0.0620024905	0.0128921356	-4.809327
## 782	782 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 783	783 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 784	784 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 785	785 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 786	786 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 787	787 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 788	788 response	cigs	eY/eX	-0.0116764021	0.0023205585	-5.031721

## 789	789 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 790	790 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 791	791 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 792	792 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 793	793 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 794	794 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 795	795 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 796	796 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 797	797 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 798	798 response	cigs	eY/eX	-0.0396935254	0.0081261754	-4.884650
## 799	799 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 800	800 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 801	801 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 802	802 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 803	803 response	cigs	eY/eX	-0.0408958463	0.0083138539	-4.919000
## 804	804 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 805	805 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 806	806 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 807	807 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 808	808 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 809	809 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 810	810 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 811	811 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 812	812 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 813	813 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 814	814 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 815	815 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 816	816 response	cigs	eY/eX	-0.0079579017	0.0015647721	-5.085662
## 817	817 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 818	818 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 819	819 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 820	820 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 821	821 response	cigs	eY/eX	-0.0405967352	0.0082658909	-4.911356
## 822	822 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 823	823 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 824	824 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 825	825 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 826	826 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 827	827 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 828	828	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 829	829	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 830	830	response	cigs	eY/eX	-0.0837073792	0.0177998626	-4.702698
## 831	831	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 832	832	response	cigs	eY/eX	-0.0396935254	0.0081261754	-4.884650
## 833	833	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 834	834	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 835	835	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 836	836	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 837	837	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 838	838	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 839	839	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 840	840	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 841	841	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 842	842	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 843	843	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 844	844	response	cigs	eY/eX	-0.0194605341	0.0039065039	-4.981573
## 845	845	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 846	846	response	cigs	eY/eX	-0.0401723294	0.0081993096	-4.899477
## 847	847	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 848	848	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 849	849	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 850	850	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 851	851	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 852	852	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 853	853	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 854	854	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 855	855	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 856	856	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 857	857	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 858	858	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 859	859	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 860	860	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 861	861	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 862	862	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 863	863	response	cigs	eY/eX	-0.0851339267	0.0180497758	-4.716620
## 864	864	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 865	865	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 866	866	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 867	867 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 868	868 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 869	869 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 870	870 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 871	871 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 872	872 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 873	873 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 874	874 response	cigs	eY/eX	-0.0406959516	0.0082817035	-4.913959
## 875	875 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 876	876 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 877	877 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 878	878 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 879	879 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 880	880 response	cigs	eY/eX	-0.0408289969	0.0083030582	-4.917344
## 881	881 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 882	882 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 883	883 response	cigs	eY/eX	-0.1322018234	0.0293052124	-4.511205
## 884	884 response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
## 885	885 response	cigs	eY/eX	-0.0852065315	0.0180627460	-4.717252
## 886	886 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 887	887 response	cigs	eY/eX	-0.0405967352	0.0082658909	-4.911356
## 888	888 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 889	889 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 890	890 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 891	891 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 892	892 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 893	893 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 894	894 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 895	895 response	cigs	eY/eX	-0.1345761147	0.0297738243	-4.519947
## 896	896 response	cigs	eY/eX	-0.1344553765	0.0297495823	-4.519572
## 897	897 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 898	898 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 899	899 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 900	900 response	cigs	eY/eX	-0.0160434757	0.0031799486	-5.045200
## 901	901 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 902	902 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 903	903 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 904	904 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 905	905 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 906	906 response	cigs	eY/eX	-0.0409293532	0.0083192818	-4.919818
## 907	907 response	cigs	eY/eX	-0.0118988998	0.0023530140	-5.056876
## 908	908 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 909	909 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 910	910 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 911	911 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 912	912 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 913	913 response	cigs	eY/eX	-0.0857918588	0.0181682274	-4.722082
## 914	914 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 915	915 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 916	916 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 917	917 response	cigs	eY/eX	-0.0119558556	0.0023615868	-5.062637
## 918	918 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 919	919 response	cigs	eY/eX	-0.0280083167	0.0056373768	-4.968324
## 920	920 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 921	921 response	cigs	eY/eX	-0.0840595152	0.0178606971	-4.706396
## 922	922 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 923	923 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 924	924 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 925	925 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 926	926 response	cigs	eY/eX	-0.0079452448	0.0015628660	-5.083766
## 927	927 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 928	928 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 929	929 response	cigs	eY/eX	-0.0407623657	0.0082923417	-4.915664
## 930	930 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 931	931 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 932	932 response	cigs	eY/eX	-0.0851339267	0.0180497758	-4.716620
## 933	933 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 934	934 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 935	935 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 936	936 response	cigs	eY/eX	-0.0200221212	0.0039895539	-5.018637
## 937	937 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 938	938 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 939	939 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 940	940 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 941	941 response	cigs	eY/eX	-0.0404980014	0.0082502495	-4.908700
## 942	942 response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 943	943 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 944	944 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 945	945 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 946	946 response	cigs	eY/eX	-0.0840595152	0.0178606971	-4.706396
## 947	947 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 948	948 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 949	949 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 950	950 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 951	951 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 952	952 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 953	953 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 954	954 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 955	955 response	cigs	eY/eX	-0.0196133457	0.0039285140	-4.992561
## 956	956 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 957	957 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 958	958 response	cigs	eY/eX	-0.0281209349	0.0056547021	-4.973018
## 959	959 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 960	960 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 961	961 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 962	962 response	cigs	eY/eX	-0.0620024905	0.0128921356	-4.809327
## 963	963 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 964	964 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 965	965 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 966	966 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 967	967 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 968	968 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 969	969 response	cigs	eY/eX	-0.0160563673	0.0031819372	-5.046098
## 970	970 response	cigs	eY/eX	-0.0409629150	0.0083247298	-4.920630
## 971	971 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 972	972 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 973	973 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 974	974 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 975	975 response	cigs	eY/eX	-0.0622600736	0.0129351960	-4.813230
## 976	976 response	cigs	eY/eX	-0.0622083859	0.0129265220	-4.812461
## 977	977 response	cigs	eY/eX	-0.1873337012	0.0433975502	-4.316688
## 978	978 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 979	979 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 980	980 response	cigs	eY/eX	-0.0405967352	0.0082658909	-4.911356
## 981	981 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 982	982 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 983	983 response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 984	984	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 985	985	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 986	986	response	cigs	eY/eX	-0.0852792602	0.0180757634	-4.717879
## 987	987	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 988	988	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 989	989	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 990	990	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 991	991	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 992	992	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 993	993	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 994	994	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 995	995	response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
## 996	996	response	cigs	eY/eX	-0.0846291370	0.0179602810	-4.712016
## 997	997	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 998	998	response	cigs	eY/eX	-0.0412334042	0.0083690533	-4.926890
## 999	999	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1000	1000	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1001	1001	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1002	1002	response	cigs	eY/eX	-0.0406628256	0.0082764134	-4.913097
## 1003	1003	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1004	1004	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1005	1005	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1006	1006	response	cigs	eY/eX	-0.0411654476	0.0083578475	-4.925365
## 1007	1007	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1008	1008	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1009	1009	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1010	1010	response	cigs	eY/eX	-0.0621567840	0.0129178791	-4.811686
## 1011	1011	response	cigs	eY/eX	-0.0614936660	0.0128082779	-4.801088
## 1012	1012	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1013	1013	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1014	1014	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1015	1015	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1016	1016	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1017	1017	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1018	1018	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1019	1019	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1020	1020	response	cigs	eY/eX	-0.0849168527	0.0180111451	-4.714684
## 1021	1021	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1022	1022	response	cigs	eY/eX	-0.0198945409	0.0039701531	-5.011026

##	1023	1023	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1024	1024	response	cigs	eY/eX	-0.0240650402	0.0048170589	-4.995795
##	1025	1025	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1026	1026	response	cigs	eY/eX	-0.0856447743	0.0181415666	-4.720914
##	1027	1027	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1028	1028	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1029	1029	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1030	1030	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1031	1031	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1032	1032	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1033	1033	response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
##	1034	1034	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1035	1035	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1036	1036	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1037	1037	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1038	1038	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1039	1039	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1040	1040	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1041	1041	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1042	1042	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1043	1043	response	cigs	eY/eX	-0.0847727507	0.0179856220	-4.713362
##	1044	1044	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1045	1045	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1046	1046	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1047	1047	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1048	1048	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1049	1049	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1050	1050	response	cigs	eY/eX	-0.0411654476	0.0083578475	-4.925365
##	1051	1051	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1052	1052	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1053	1053	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1054	1054	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1055	1055	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1056	1056	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1057	1057	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1058	1058	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1059	1059	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1060	1060	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1061	1061	response	cigs	eY/eX	-0.0855714210	0.0181283095	-4.720320

##	1062	1062	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1063	1063	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1064	1064	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1065	1065	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1066	1066	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1067	1067	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1068	1068	response	cigs	eY/eX	-0.0830118844	0.0176812986	-4.694897
##	1069	1069	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1070	1070	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1071	1071	response	cigs	eY/eX	-0.0405967352	0.0082658909	-4.911356
##	1072	1072	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1073	1073	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1074	1074	response	cigs	eY/eX	-0.0849890876	0.0180239756	-4.715335
##	1075	1075	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1076	1076	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1077	1077	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1078	1078	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1079	1079	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1080	1080	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1081	1081	response	cigs	eY/eX	-0.0840595152	0.0178606971	-4.706396
##	1082	1082	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1083	1083	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1084	1084	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1085	1085	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1086	1086	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1087	1087	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1088	1088	response	cigs	eY/eX	-0.0406297535	0.0082711426	-4.912230
##	1089	1089	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1090	1090	response	cigs	eY/eX	-0.0235359319	0.0047378441	-4.967646
##	1091	1091	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1092	1092	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1093	1093	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1094	1094	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1095	1095	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1096	1096	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1097	1097	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1098	1098	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1099	1099	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1100	1100	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1101	1101	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1102	1102	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1103	1103	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1104	1104	response	cigs	eY/eX	-0.0079642452	0.0015657306	-5.086600
##	1105	1105	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1106	1106	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1107	1107	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1108	1108	response	cigs	eY/eX	-0.0853521132	0.0180888281	-4.718499
##	1109	1109	response	cigs	eY/eX	-0.0410977146	0.0083467256	-4.923813
##	1110	1110	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1111	1111	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1112	1112	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1113	1113	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1114	1114	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1115	1115	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1116	1116	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1117	1117	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1118	1118	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1119	1119	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1120	1120	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1121	1121	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1122	1122	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1123	1123	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1124	1124	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1125	1125	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1126	1126	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1127	1127	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1128	1128	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1129	1129	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1130	1130	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1131	1131	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1132	1132	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1133	1133	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1134	1134	response	cigs	eY/eX	-0.0158777497	0.0031547673	-5.032938
##	1135	1135	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1136	1136	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1137	1137	response	cigs	eY/eX	-0.0235359319	0.0047378441	-4.967646
##	1138	1138	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1139	1139	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1140	1140	response	cigs	eY/eX	-0.0404980014	0.0082502495	-4.908700
##	1141	1141	response	cigs	eY/eX	-0.0118144765	0.0023405091	-5.047823
##	1142	1142	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1143	1143	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1144	1144	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1145	1145	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1146	1146	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1147	1147	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1148	1148	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1149	1149	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1150	1150	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1151	1151	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1152	1152	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1153	1153	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1154	1154	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1155	1155	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1156	1156	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1157	1157	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1158	1158	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1159	1159	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1160	1160	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1161	1161	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1162	1162	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1163	1163	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1164	1164	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1165	1165	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1166	1166	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1167	1167	response	cigs	eY/eX	-0.0199740873	0.0039822111	-5.015828
##	1168	1168	response	cigs	eY/eX	-0.0196906549	0.0039398121	-4.997866
##	1169	1169	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1170	1170	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1171	1171	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1172	1172	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1173	1173	response	cigs	eY/eX	-0.0814885019	0.0174286356	-4.675553
##	1174	1174	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1175	1175	response	cigs	eY/eX	-0.0239114544	0.0047936047	-4.988199
##	1176	1176	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1177	1177	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1178	1178	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

## 1179	1179	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1180	1180	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1181	1181	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1182	1182	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1183	1183	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1184	1184	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1185	1185	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1186	1186	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1187	1187	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1188	1188	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1189	1189	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1190	1190	response	cigs	eY/eX	-0.0853521132	0.0180888281	-4.718499
## 1191	1191	response	cigs	eY/eX	-0.0621567840	0.0129178791	-4.811686
## 1192	1192	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1193	1193	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1194	1194	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1195	1195	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1196	1196	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1197	1197	response	cigs	eY/eX	-0.0326101313	0.0065689613	-4.964275
## 1198	1198	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1199	1199	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1200	1200	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1201	1201	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1202	1202	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1203	1203	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1204	1204	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1205	1205	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1206	1206	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1207	1207	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1208	1208	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1209	1209	response	cigs	eY/eX	-0.0201351039	0.0040070109	-5.024969
## 1210	1210	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1211	1211	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1212	1212	response	cigs	eY/eX	-0.0411993979	0.0083634398	-4.926131
## 1213	1213	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1214	1214	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1215	1215	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1216	1216	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
## 1217	1217	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1218	1218	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1219	1219	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1220	1220	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1221	1221	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1222	1222	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1223	1223	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1224	1224	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1225	1225	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1226	1226	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1227	1227	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1228	1228	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1229	1229	response	cigs	eY/eX	-0.0627291571	0.0130146953	-4.819871
##	1230	1230	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1231	1231	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1232	1232	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1233	1233	response	cigs	eY/eX	-0.0473497181	0.0098074805	-4.827919
##	1234	1234	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1235	1235	response	cigs	eY/eX	-0.0404980014	0.0082502495	-4.908700
##	1236	1236	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1237	1237	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1238	1238	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1239	1239	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1240	1240	response	cigs	eY/eX	-0.2227367610	0.0530868176	-4.195708
##	1241	1241	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1242	1242	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1243	1243	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1244	1244	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1245	1245	response	cigs	eY/eX	-0.0852792602	0.0180757634	-4.717879
##	1246	1246	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1247	1247	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1248	1248	response	cigs	eY/eX	-0.0198471164	0.0039630238	-5.008074
##	1249	1249	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1250	1250	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1251	1251	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1252	1252	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1253	1253	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1254	1254	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1255	1255	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1256	1256	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1257	1257	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1258	1258	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1259	1259	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1260	1260	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1261	1261	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1262	1262	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1263	1263	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1264	1264	response	cigs	eY/eX	-0.1843948775	0.0427586507	-4.312458
##	1265	1265	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1266	1266	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1267	1267	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1268	1268	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1269	1269	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1270	1270	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1271	1271	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1272	1272	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1273	1273	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1274	1274	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1275	1275	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1276	1276	response	cigs	eY/eX	-0.0855714210	0.0181283095	-4.720320
##	1277	1277	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1278	1278	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1279	1279	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1280	1280	response	cigs	eY/eX	-0.0482064474	0.0099379287	-4.850754
##	1281	1281	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1282	1282	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1283	1283	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1284	1284	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1285	1285	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1286	1286	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1287	1287	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1288	1288	response	cigs	eY/eX	-0.0403345080	0.0082245527	-4.904158
##	1289	1289	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1290	1290	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1291	1291	response	cigs	eY/eX	-0.0857182534	0.0181548725	-4.721501
##	1292	1292	response	cigs	eY/eX	-0.0200060843	0.0039870972	-5.017707
##	1293	1293	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1294	1294	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1295	1295	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1296	1296	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1297	1297	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1298	1298	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1299	1299	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1300	1300	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1301	1301	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1302	1302	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1303	1303	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1304	1304	response	cigs	eY/eX	-0.2404693997	0.0584641282	-4.113110
##	1305	1305	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1306	1306	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1307	1307	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1308	1308	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1309	1309	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1310	1310	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1311	1311	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1312	1312	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1313	1313	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1314	1314	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1315	1315	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1316	1316	response	cigs	eY/eX	-0.0844146264	0.0179226064	-4.709953
##	1317	1317	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1318	1318	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1319	1319	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1320	1320	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1321	1321	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1322	1322	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1323	1323	response	cigs	eY/eX	-0.0191987664	0.0038697526	-4.961239
##	1324	1324	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1325	1325	response	cigs	eY/eX	-0.0620024905	0.0128921356	-4.809327
##	1326	1326	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1327	1327	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1328	1328	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1329	1329	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1330	1330	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1331	1331	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1332	1332	response	cigs	eY/eX	-0.0404980014	0.0082502495	-4.908700
##	1333	1333	response	cigs	eY/eX	-0.0368365533	0.0074506931	-4.944044
##	1334	1334	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1335	1335	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1336	1336	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1337	1337	response	cigs	eY/eX	-0.0628870930	0.0130417827	-4.821971
##	1338	1338	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1339	1339	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1340	1340	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1341	1341	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1342	1342	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1343	1343	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1344	1344	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1345	1345	response	cigs	eY/eX	-0.0410302041	0.0083356867	-4.922234
##	1346	1346	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1347	1347	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1348	1348	response	cigs	eY/eX	-0.0626766880	0.0130057325	-4.819159
##	1349	1349	response	cigs	eY/eX	-0.0837073792	0.0177998626	-4.702698
##	1350	1350	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1351	1351	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1352	1352	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1353	1353	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1354	1354	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1355	1355	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1356	1356	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1357	1357	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1358	1358	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1359	1359	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1360	1360	response	cigs	eY/eX	-0.0119083547	0.0023544294	-5.057852
##	1361	1361	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1362	1362	response	cigs	eY/eX	-0.0410639316	0.0083411958	-4.923027
##	1363	1363	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1364	1364	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1365	1365	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1366	1366	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1367	1367	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1368	1368	response	cigs	eY/eX	-0.0625198058	0.0129790402	-4.816982
##	1369	1369	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1370	1370	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1371	1371	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1372	1372	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1373	1373	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN

##	1374	1374	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1375	1375	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1376	1376	response	cigs	eY/eX	-0.0847727507	0.0179856220	-4.713362
##	1377	1377	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1378	1378	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1379	1379	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1380	1380	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1381	1381	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1382	1382	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1383	1383	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1384	1384	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1385	1385	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1386	1386	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1387	1387	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1388	1388	response	cigs	eY/eX	0.0000000000	0.0000000000	NaN
##	1389	1	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	1390	2	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	1391	3	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	1392	4	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	1393	5	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	1394	6	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	1395	7	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	1396	8	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	1397	9	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	1398	10	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	1399	11	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	1400	12	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	1401	13	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	1402	14	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	1403	15	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	1404	16	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	1405	17	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	1406	18	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	1407	19	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	1408	20	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	1409	21	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	1410	22	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	1411	23	response	faminc	eY/eX	0.0124347861	0.0039488756	3.148944
##	1412	24	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862

## 1413	25	response faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1414	26	response faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 1415	27	response faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 1416	28	response faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1417	29	response faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1418	30	response faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1419	31	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1420	32	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1421	33	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1422	34	response faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1423	35	response faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1424	36	response faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1425	37	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1426	38	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1427	39	response faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1428	40	response faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1429	41	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1430	42	response faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1431	43	response faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1432	44	response faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1433	45	response faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1434	46	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1435	47	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1436	48	response faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 1437	49	response faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1438	50	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1439	51	response faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1440	52	response faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1441	53	response faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1442	54	response faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1443	55	response faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1444	56	response faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 1445	57	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1446	58	response faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1447	59	response faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1448	60	response faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1449	61	response faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1450	62	response faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1451	63	response faminc	eY/eX	0.0003963610	0.0001276594	3.104831

## 1452	64	response	faminc	eY/eX	0.0004127043	0.0001324927	3.114922
## 1453	65	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1454	66	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1455	67	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1456	68	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1457	69	response	faminc	eY/eX	0.0064181230	0.0020422950	3.142603
## 1458	70	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1459	71	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1460	72	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1461	73	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1462	74	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1463	75	response	faminc	eY/eX	0.0171350926	0.0053738709	3.188594
## 1464	76	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1465	77	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1466	78	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1467	79	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1468	80	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1469	81	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1470	82	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1471	83	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1472	84	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1473	85	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1474	86	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1475	87	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1476	88	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1477	89	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1478	90	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1479	91	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1480	92	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1481	93	response	faminc	eY/eX	0.0061550022	0.0019646102	3.132938
## 1482	94	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1483	95	response	faminc	eY/eX	0.0110247182	0.0035017104	3.148381
## 1484	96	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1485	97	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1486	98	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
## 1487	99	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1488	100	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1489	101	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1490	102	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994

## 1491	103	response	faminc	eY/eX	0.0091452042	0.0029167400	3.135420
## 1492	104	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1493	105	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1494	106	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1495	107	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1496	108	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
## 1497	109	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1498	110	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1499	111	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1500	112	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 1501	113	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1502	114	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1503	115	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1504	116	response	faminc	eY/eX	0.0312873896	0.0097064321	3.223367
## 1505	117	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1506	118	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1507	119	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1508	120	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1509	121	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1510	122	response	faminc	eY/eX	0.0060881051	0.0019308212	3.153117
## 1511	123	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1512	124	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1513	125	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1514	126	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1515	127	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1516	128	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1517	129	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1518	130	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1519	131	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1520	132	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1521	133	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 1522	134	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1523	135	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1524	136	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1525	137	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1526	138	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1527	139	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1528	140	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1529	141	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789

## 1530	142	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1531	143	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1532	144	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1533	145	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1534	146	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1535	147	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1536	148	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1537	149	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 1538	150	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 1539	151	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1540	152	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1541	153	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1542	154	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1543	155	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1544	156	response	faminc	eY/eX	0.0255203365	0.0080020891	3.189209
## 1545	157	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1546	158	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1547	159	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1548	160	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 1549	161	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1550	162	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1551	163	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1552	164	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1553	165	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1554	166	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1555	167	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1556	168	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1557	169	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1558	170	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1559	171	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1560	172	response	faminc	eY/eX	0.0068300596	0.0021820247	3.130148
## 1561	173	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1562	174	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1563	175	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 1564	176	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1565	177	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1566	178	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1567	179	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1568	180	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181

## 1569	181	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1570	182	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1571	183	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1572	184	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1573	185	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1574	186	response	faminc	eY/eX	0.0261354633	0.0081742726	3.197283
## 1575	187	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1576	188	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1577	189	response	faminc	eY/eX	0.0393027784	0.0120920920	3.250288
## 1578	190	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1579	191	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1580	192	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1581	193	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1582	194	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1583	195	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1584	196	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1585	197	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1586	198	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1587	199	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1588	200	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1589	201	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1590	202	response	faminc	eY/eX	0.0259271525	0.0081158640	3.194626
## 1591	203	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1592	204	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 1593	205	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1594	206	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1595	207	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1596	208	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1597	209	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1598	210	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1599	211	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1600	212	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1601	213	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1602	214	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1603	215	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1604	216	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 1605	217	response	faminc	eY/eX	0.0216792481	0.0068245095	3.176675
## 1606	218	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1607	219	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036

## 1608	220	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1609	221	response	faminc	eY/eX	0.0272293289	0.0084829051	3.209906
## 1610	222	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1611	223	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1612	224	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1613	225	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 1614	226	response	faminc	eY/eX	0.0126373693	0.0040073742	3.153529
## 1615	227	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1616	228	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1617	229	response	faminc	eY/eX	0.0183894132	0.0057938879	3.173933
## 1618	230	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1619	231	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1620	232	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1621	233	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 1622	234	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1623	235	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1624	236	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1625	237	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1626	238	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1627	239	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1628	240	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1629	241	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1630	242	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 1631	243	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1632	244	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1633	245	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1634	246	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1635	247	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1636	248	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1637	249	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1638	250	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1639	251	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1640	252	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1641	253	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 1642	254	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1643	255	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1644	256	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1645	257	response	faminc	eY/eX	0.0148485538	0.0046847892	3.169524
## 1646	258	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181

## 1647	259	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1648	260	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1649	261	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1650	262	response	faminc	eY/eX	0.0110247182	0.0035017104	3.148381
## 1651	263	response	faminc	eY/eX	0.0261354633	0.0081742726	3.197283
## 1652	264	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1653	265	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1654	266	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1655	267	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1656	268	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1657	269	response	faminc	eY/eX	0.0055671373	0.0017730238	3.139911
## 1658	270	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1659	271	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1660	272	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1661	273	response	faminc	eY/eX	0.0106512974	0.0033748674	3.156064
## 1662	274	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1663	275	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1664	276	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1665	277	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1666	278	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1667	279	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1668	280	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1669	281	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1670	282	response	faminc	eY/eX	0.0255203365	0.0080020891	3.189209
## 1671	283	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1672	284	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1673	285	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1674	286	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1675	287	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1676	288	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1677	289	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1678	290	response	faminc	eY/eX	0.0252235051	0.0079192982	3.185068
## 1679	291	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1680	292	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1681	293	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1682	294	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1683	295	response	faminc	eY/eX	0.0156837351	0.0049440935	3.172217
## 1684	296	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1685	297	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633

## 1686	298	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1687	299	response	faminc	eY/eX	0.0252605122	0.0078565869	3.215202
## 1688	300	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1689	301	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1690	302	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1691	303	response	faminc	eY/eX	0.0030054116	0.0009596328	3.131835
## 1692	304	response	faminc	eY/eX	0.0150465088	0.0047596709	3.161250
## 1693	305	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1694	306	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1695	307	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1696	308	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1697	309	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1698	310	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1699	311	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1700	312	response	faminc	eY/eX	0.0118317017	0.0037549577	3.150955
## 1701	313	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1702	314	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1703	315	response	faminc	eY/eX	0.0038607854	0.0012316963	3.134527
## 1704	316	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1705	317	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1706	318	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1707	319	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 1708	320	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1709	321	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1710	322	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1711	323	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1712	324	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1713	325	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1714	326	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1715	327	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1716	328	response	faminc	eY/eX	0.0004213920	0.0001350820	3.119527
## 1717	329	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1718	330	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 1719	331	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1720	332	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1721	333	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1722	334	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1723	335	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1724	336	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687

## 1725	337	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 1726	338	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1727	339	response	faminc	eY/eX	0.0106512974	0.0033748674	3.156064
## 1728	340	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1729	341	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 1730	342	response	faminc	eY/eX	0.0312873896	0.0097064321	3.223367
## 1731	343	response	faminc	eY/eX	0.0223844745	0.0070238649	3.186917
## 1732	344	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1733	345	response	faminc	eY/eX	0.0061049459	0.0019499341	3.130847
## 1734	346	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1735	347	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1736	348	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1737	349	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1738	350	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1739	351	response	faminc	eY/eX	0.0306486849	0.0095273806	3.216906
## 1740	352	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1741	353	response	faminc	eY/eX	0.0020601208	0.0006602805	3.120069
## 1742	354	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1743	355	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1744	356	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1745	357	response	faminc	eY/eX	0.0261354633	0.0081742726	3.197283
## 1746	358	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1747	359	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1748	360	response	faminc	eY/eX	0.0081157324	0.0025780699	3.147988
## 1749	361	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1750	362	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1751	363	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1752	364	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1753	365	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1754	366	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1755	367	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1756	368	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1757	369	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1758	370	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1759	371	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1760	372	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1761	373	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 1762	374	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1763	375	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675

## 1764	376	response	faminc	eY/eX	0.0045210889	0.0014454577	3.127791
## 1765	377	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1766	378	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1767	379	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1768	380	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 1769	381	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1770	382	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1771	383	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1772	384	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1773	385	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1774	386	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 1775	387	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1776	388	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1777	389	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1778	390	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1779	391	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1780	392	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1781	393	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1782	394	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1783	395	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1784	396	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1785	397	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1786	398	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1787	399	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1788	400	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1789	401	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1790	402	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 1791	403	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1792	404	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
## 1793	405	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1794	406	response	faminc	eY/eX	0.0038607854	0.0012316963	3.134527
## 1795	407	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1796	408	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1797	409	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1798	410	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1799	411	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1800	412	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1801	413	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1802	414	response	faminc	eY/eX	0.0012902494	0.0004126882	3.126451

## 1803	415	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
## 1804	416	response	faminc	eY/eX	0.0028123876	0.0009024157	3.116510
## 1805	417	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1806	418	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1807	419	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1808	420	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1809	421	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1810	422	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 1811	423	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1812	424	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1813	425	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1814	426	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1815	427	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1816	428	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
## 1817	429	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1818	430	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1819	431	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1820	432	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1821	433	response	faminc	eY/eX	0.0038607854	0.0012316963	3.134527
## 1822	434	response	faminc	eY/eX	0.0094067906	0.0029927115	3.143233
## 1823	435	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1824	436	response	faminc	eY/eX	0.0326481341	0.0100917562	3.235129
## 1825	437	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1826	438	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1827	439	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1828	440	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1829	441	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1830	442	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1831	443	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1832	444	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1833	445	response	faminc	eY/eX	0.0306486849	0.0095273806	3.216906
## 1834	446	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1835	447	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1836	448	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1837	449	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1838	450	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1839	451	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1840	452	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1841	453	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036

## 1842	454	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1843	455	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1844	456	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1845	457	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1846	458	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 1847	459	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 1848	460	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1849	461	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1850	462	response	faminc	eY/eX	0.0226609095	0.0071024263	3.190587
## 1851	463	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1852	464	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1853	465	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1854	466	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1855	467	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1856	468	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1857	469	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1858	470	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1859	471	response	faminc	eY/eX	0.0060313696	0.0019284154	3.127630
## 1860	472	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1861	473	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
## 1862	474	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1863	475	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1864	476	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1865	477	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 1866	478	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1867	479	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1868	480	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1869	481	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1870	482	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1871	483	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1872	484	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1873	485	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1874	486	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1875	487	response	faminc	eY/eX	0.0123344844	0.0039015299	3.161448
## 1876	488	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1877	489	response	faminc	eY/eX	0.0131739321	0.0041635107	3.164140
## 1878	490	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1879	491	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1880	492	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759

## 1881	493	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 1882	494	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1883	495	response	faminc	eY/eX	0.0028237223	0.0009057479	3.117559
## 1884	496	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1885	497	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1886	498	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1887	499	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1888	500	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 1889	501	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1890	502	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1891	503	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1892	504	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1893	505	response	faminc	eY/eX	0.0106512974	0.0033748674	3.156064
## 1894	506	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1895	507	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 1896	508	response	faminc	eY/eX	0.0294464384	0.0091929208	3.203165
## 1897	509	response	faminc	eY/eX	0.0147469268	0.0046736621	3.155326
## 1898	510	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1899	511	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1900	512	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1901	513	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1902	514	response	faminc	eY/eX	0.0102439775	0.0032398954	3.161824
## 1903	515	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1904	516	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1905	517	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1906	518	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1907	519	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1908	520	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1909	521	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1910	522	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1911	523	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1912	524	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1913	525	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1914	526	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1915	527	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1916	528	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1917	529	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1918	530	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 1919	531	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181

## 1920	532	response	faminc	eY/eX	0.0509395967	0.0155259561	3.280931
## 1921	533	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1922	534	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1923	535	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 1924	536	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1925	537	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1926	538	response	faminc	eY/eX	0.0333725126	0.0103730823	3.217222
## 1927	539	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1928	540	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1929	541	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1930	542	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 1931	543	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1932	544	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1933	545	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1934	546	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1935	547	response	faminc	eY/eX	0.0081157324	0.0025780699	3.147988
## 1936	548	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1937	549	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1938	550	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1939	551	response	faminc	eY/eX	0.0332421153	0.0103372707	3.215754
## 1940	552	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1941	553	response	faminc	eY/eX	0.0530150924	0.0160778486	3.297400
## 1942	554	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1943	555	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1944	556	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1945	557	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 1946	558	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1947	559	response	faminc	eY/eX	0.0158469449	0.0050087953	3.163824
## 1948	560	response	faminc	eY/eX	0.0493926525	0.0151176185	3.267224
## 1949	561	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1950	562	response	faminc	eY/eX	0.0294464384	0.0091929208	3.203165
## 1951	563	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1952	564	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1953	565	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1954	566	response	faminc	eY/eX	0.0289915415	0.0090671085	3.197441
## 1955	567	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1956	568	response	faminc	eY/eX	0.0231371258	0.0072383919	3.196446
## 1957	569	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1958	570	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675

## 1959	571	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1960	572	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1961	573	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1962	574	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1963	575	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1964	576	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1965	577	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1966	578	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1967	579	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1968	580	response	faminc	eY/eX	0.0134417242	0.0042589633	3.156102
## 1969	581	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1970	582	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1971	583	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1972	584	response	faminc	eY/eX	0.0110247182	0.0035017104	3.148381
## 1973	585	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1974	586	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1975	587	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 1976	588	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1977	589	response	faminc	eY/eX	0.0055671373	0.0017730238	3.139911
## 1978	590	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 1979	591	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 1980	592	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1981	593	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1982	594	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 1983	595	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 1984	596	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1985	597	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 1986	598	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1987	599	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 1988	600	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1989	601	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 1990	602	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 1991	603	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 1992	604	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 1993	605	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1994	606	response	faminc	eY/eX	0.0098075506	0.0031101789	3.153372
## 1995	607	response	faminc	eY/eX	0.0047146927	0.0015028254	3.137219
## 1996	608	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1997	609	response	faminc	eY/eX	0.0020024194	0.0006432534	3.112956

## 1998	610	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 1999	611	response	faminc	eY/eX	0.0261354633	0.0081742726	3.197283
## 2000	612	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 2001	613	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2002	614	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 2003	615	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2004	616	response	faminc	eY/eX	0.0098075506	0.0031101789	3.153372
## 2005	617	response	faminc	eY/eX	0.0207630527	0.0064876029	3.200420
## 2006	618	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2007	619	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 2008	620	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2009	621	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2010	622	response	faminc	eY/eX	0.0272293289	0.0084829051	3.209906
## 2011	623	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2012	624	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 2013	625	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2014	626	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2015	627	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2016	628	response	faminc	eY/eX	0.0044842606	0.0014346214	3.125745
## 2017	629	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
## 2018	630	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 2019	631	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2020	632	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 2021	633	response	faminc	eY/eX	0.0037021159	0.0011845949	3.125217
## 2022	634	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2023	635	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2024	636	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2025	637	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2026	638	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2027	639	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2028	640	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 2029	641	response	faminc	eY/eX	0.0258242374	0.0080870460	3.193284
## 2030	642	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 2031	643	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2032	644	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2033	645	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 2034	646	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 2035	647	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2036	648	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356

##	2037	649	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2038	650	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2039	651	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2040	652	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2041	653	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2042	654	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2043	655	response	faminc	eY/eX	0.0180939129	0.0057094533	3.169115
##	2044	656	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2045	657	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2046	658	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2047	659	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2048	660	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2049	661	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2050	662	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2051	663	response	faminc	eY/eX	0.0055671373	0.0017730238	3.139911
##	2052	664	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2053	665	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2054	666	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2055	667	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2056	668	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2057	669	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
##	2058	670	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2059	671	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2060	672	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2061	673	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2062	674	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2063	675	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2064	676	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2065	677	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2066	678	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2067	679	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2068	680	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2069	681	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2070	682	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2071	683	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2072	684	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2073	685	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2074	686	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2075	687	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675

## 2076	688	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2077	689	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2078	690	response	faminc	eY/eX	0.0148485538	0.0046847892	3.169524
## 2079	691	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2080	692	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2081	693	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
## 2082	694	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 2083	695	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2084	696	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2085	697	response	faminc	eY/eX	0.0256208389	0.0080301624	3.190575
## 2086	698	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2087	699	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
## 2088	700	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 2089	701	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2090	702	response	faminc	eY/eX	0.0182404663	0.0057512869	3.171545
## 2091	703	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
## 2092	704	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2093	705	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2094	706	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2095	707	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2096	708	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2097	709	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2098	710	response	faminc	eY/eX	0.0272293289	0.0084829051	3.209906
## 2099	711	response	faminc	eY/eX	0.0306486849	0.0095273806	3.216906
## 2100	712	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2101	713	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2102	714	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 2103	715	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2104	716	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2105	717	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
## 2106	718	response	faminc	eY/eX	0.0258242374	0.0080870460	3.193284
## 2107	719	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2108	720	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 2109	721	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 2110	722	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2111	723	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2112	724	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2113	725	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 2114	726	response	faminc	eY/eX	0.0186174511	0.0058592838	3.177428

## 2115	727	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2116	728	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2117	729	response	faminc	eY/eX	0.0289915415	0.0090671085	3.197441
## 2118	730	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2119	731	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 2120	732	response	faminc	eY/eX	0.0345938089	0.0107099422	3.230065
## 2121	733	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
## 2122	734	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2123	735	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2124	736	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2125	737	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2126	738	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 2127	739	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2128	740	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2129	741	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2130	742	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2131	743	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2132	744	response	faminc	eY/eX	0.0131736667	0.0041817310	3.150290
## 2133	745	response	faminc	eY/eX	0.0509395967	0.0155259561	3.280931
## 2134	746	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2135	747	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2136	748	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 2137	749	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2138	750	response	faminc	eY/eX	0.0513415926	0.0156324511	3.284296
## 2139	751	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2140	752	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2141	753	response	faminc	eY/eX	0.0509395967	0.0155259561	3.280931
## 2142	754	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2143	755	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2144	756	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
## 2145	757	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2146	758	response	faminc	eY/eX	0.0377427126	0.0116637810	3.235890
## 2147	759	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
## 2148	760	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2149	761	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2150	762	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2151	763	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2152	764	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2153	765	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750

## 2154	766	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
## 2155	767	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2156	768	response	faminc	eY/eX	0.0293313811	0.0091610648	3.201744
## 2157	769	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2158	770	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2159	771	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2160	772	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2161	773	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2162	774	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2163	775	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2164	776	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 2165	777	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2166	778	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2167	779	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2168	780	response	faminc	eY/eX	0.0052104452	0.0016678599	3.124031
## 2169	781	response	faminc	eY/eX	0.0186174511	0.0058592838	3.177428
## 2170	782	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2171	783	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2172	784	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2173	785	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2174	786	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2175	787	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2176	788	response	faminc	eY/eX	0.0292172194	0.0091294801	3.200316
## 2177	789	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2178	790	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2179	791	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2180	792	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2181	793	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2182	794	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2183	795	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
## 2184	796	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2185	797	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2186	798	response	faminc	eY/eX	0.0377427126	0.0116637810	3.235890
## 2187	799	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2188	800	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2189	801	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
## 2190	802	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2191	803	response	faminc	eY/eX	0.0085958401	0.0027369538	3.140660
## 2192	804	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750

## 2193	805	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2194	806	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2195	807	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
## 2196	808	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2197	809	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2198	810	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 2199	811	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2200	812	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2201	813	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 2202	814	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2203	815	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 2204	816	response	faminc	eY/eX	0.0035842716	0.0011499588	3.116869
## 2205	817	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2206	818	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2207	819	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2208	820	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2209	821	response	faminc	eY/eX	0.0158469449	0.0050087953	3.163824
## 2210	822	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2211	823	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2212	824	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2213	825	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
## 2214	826	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2215	827	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
## 2216	828	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2217	829	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2218	830	response	faminc	eY/eX	0.0272293289	0.0084829051	3.209906
## 2219	831	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2220	832	response	faminc	eY/eX	0.0377427126	0.0116637810	3.235890
## 2221	833	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2222	834	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2223	835	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2224	836	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2225	837	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2226	838	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2227	839	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2228	840	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2229	841	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2230	842	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2231	843	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750

##	2232	844	response	faminc	eY/eX	0.0370082193	0.0114635347	3.228343
##	2233	845	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2234	846	response	faminc	eY/eX	0.0261354633	0.0081742726	3.197283
##	2235	847	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2236	848	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2237	849	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2238	850	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2239	851	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2240	852	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2241	853	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2242	854	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2243	855	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2244	856	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2245	857	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2246	858	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2247	859	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2248	860	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2249	861	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2250	862	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2251	863	response	faminc	eY/eX	0.0106512974	0.0033748674	3.156064
##	2252	864	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2253	865	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2254	866	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2255	867	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2256	868	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2257	869	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2258	870	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2259	871	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2260	872	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2261	873	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2262	874	response	faminc	eY/eX	0.0134417242	0.0042589633	3.156102
##	2263	875	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2264	876	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
##	2265	877	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2266	878	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2267	879	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2268	880	response	faminc	eY/eX	0.0102164156	0.0032476294	3.145807
##	2269	881	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2270	882	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036

## 2271	883	response	faminc	eY/eX	0.0198480816	0.0062164397	3.192837
## 2272	884	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
## 2273	885	response	faminc	eY/eX	0.0098075506	0.0031101789	3.153372
## 2274	886	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
## 2275	887	response	faminc	eY/eX	0.0158469449	0.0050087953	3.163824
## 2276	888	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
## 2277	889	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2278	890	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2279	891	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
## 2280	892	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
## 2281	893	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
## 2282	894	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2283	895	response	faminc	eY/eX	0.0022449495	0.0007157616	3.136449
## 2284	896	response	faminc	eY/eX	0.0031401095	0.0010002680	3.139268
## 2285	897	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
## 2286	898	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2287	899	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
## 2288	900	response	faminc	eY/eX	0.0036130237	0.0011583854	3.119017
## 2289	901	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2290	902	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
## 2291	903	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
## 2292	904	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2293	905	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2294	906	response	faminc	eY/eX	0.0077835607	0.0024803530	3.138086
## 2295	907	response	faminc	eY/eX	0.0107186268	0.0034131279	3.140412
## 2296	908	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
## 2297	909	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
## 2298	910	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
## 2299	911	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2300	912	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
## 2301	913	response	faminc	eY/eX	0.0030054116	0.0009596328	3.131835
## 2302	914	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
## 2303	915	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
## 2304	916	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
## 2305	917	response	faminc	eY/eX	0.0059832961	0.0019143879	3.125436
## 2306	918	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
## 2307	919	response	faminc	eY/eX	0.0180215157	0.0056888167	3.167885
## 2308	920	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
## 2309	921	response	faminc	eY/eX	0.0231371258	0.0072383919	3.196446

##	2310	922	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2311	923	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2312	924	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2313	925	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2314	926	response	faminc	eY/eX	0.0051690469	0.0016557694	3.121840
##	2315	927	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2316	928	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2317	929	response	faminc	eY/eX	0.0118317017	0.0037549577	3.150955
##	2318	930	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2319	931	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2320	932	response	faminc	eY/eX	0.0106512974	0.0033748674	3.156064
##	2321	933	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2322	934	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2323	935	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2324	936	response	faminc	eY/eX	0.0092184467	0.0029379620	3.137701
##	2325	937	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2326	938	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2327	939	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2328	940	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2329	941	response	faminc	eY/eX	0.0182404663	0.0057512869	3.171545
##	2330	942	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
##	2331	943	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2332	944	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2333	945	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2334	946	response	faminc	eY/eX	0.0231371258	0.0072383919	3.196446
##	2335	947	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2336	948	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2337	949	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2338	950	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2339	951	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2340	952	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2341	953	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2342	954	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	2343	955	response	faminc	eY/eX	0.0294464384	0.0091929208	3.203165
##	2344	956	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2345	957	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
##	2346	958	response	faminc	eY/eX	0.0140730941	0.0044603074	3.155185
##	2347	959	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2348	960	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223

##	2349	961	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2350	962	response	faminc	eY/eX	0.0186174511	0.0058592838	3.177428
##	2351	963	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2352	964	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
##	2353	965	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2354	966	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2355	967	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2356	968	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2357	969	response	faminc	eY/eX	0.0028123876	0.0009024157	3.116510
##	2358	970	response	faminc	eY/eX	0.0069699491	0.0022229063	3.135512
##	2359	971	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
##	2360	972	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2361	973	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2362	974	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2363	975	response	faminc	eY/eX	0.0145403964	0.0045951844	3.164268
##	2364	976	response	faminc	eY/eX	0.0153585152	0.0048496998	3.166900
##	2365	977	response	faminc	eY/eX	0.0051563031	0.0016368381	3.150161
##	2366	978	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2367	979	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2368	980	response	faminc	eY/eX	0.0158469449	0.0050087953	3.163824
##	2369	981	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2370	982	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
##	2371	983	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2372	984	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2373	985	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2374	986	response	faminc	eY/eX	0.0089623635	0.0028445810	3.150680
##	2375	987	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2376	988	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2377	989	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2378	990	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	2379	991	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2380	992	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2381	993	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2382	994	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2383	995	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
##	2384	996	response	faminc	eY/eX	0.0165175015	0.0052025124	3.174909
##	2385	997	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2386	998	response	faminc	eY/eX	0.0004127043	0.0001324927	3.114922
##	2387	999	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633

##	2388	1000	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2389	1001	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2390	1002	response	faminc	eY/eX	0.0142447696	0.0045097279	3.158676
##	2391	1003	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2392	1004	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2393	1005	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2394	1006	response	faminc	eY/eX	0.0020601208	0.0006602805	3.120069
##	2395	1007	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2396	1008	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2397	1009	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2398	1010	response	faminc	eY/eX	0.0161752766	0.0051033642	3.169532
##	2399	1011	response	faminc	eY/eX	0.0266711852	0.0083249989	3.203746
##	2400	1012	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2401	1013	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2402	1014	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2403	1015	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2404	1016	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2405	1017	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2406	1018	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2407	1019	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2408	1020	response	faminc	eY/eX	0.0131739321	0.0041635107	3.164140
##	2409	1021	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2410	1022	response	faminc	eY/eX	0.0155316772	0.0049184440	3.157844
##	2411	1023	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
##	2412	1024	response	faminc	eY/eX	0.0116418814	0.0037000469	3.146415
##	2413	1025	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2414	1026	response	faminc	eY/eX	0.0047146927	0.0015028254	3.137219
##	2415	1027	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2416	1028	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2417	1029	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2418	1030	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2419	1031	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2420	1032	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2421	1033	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
##	2422	1034	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2423	1035	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2424	1036	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2425	1037	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2426	1038	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645

##	2427	1039	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2428	1040	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2429	1041	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
##	2430	1042	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2431	1043	response	faminc	eY/eX	0.0148485538	0.0046847892	3.169524
##	2432	1044	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2433	1045	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2434	1046	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2435	1047	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2436	1048	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2437	1049	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2438	1050	response	faminc	eY/eX	0.0020601208	0.0006602805	3.120069
##	2439	1051	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2440	1052	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2441	1053	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2442	1054	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2443	1055	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2444	1056	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2445	1057	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2446	1058	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2447	1059	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2448	1060	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2449	1061	response	faminc	eY/eX	0.0055671373	0.0017730238	3.139911
##	2450	1062	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2451	1063	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2452	1064	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2453	1065	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2454	1066	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2455	1067	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2456	1068	response	faminc	eY/eX	0.0353117333	0.0109093664	3.236827
##	2457	1069	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2458	1070	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2459	1071	response	faminc	eY/eX	0.0158469449	0.0050087953	3.163824
##	2460	1072	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2461	1073	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2462	1074	response	faminc	eY/eX	0.0123344844	0.0039015299	3.161448
##	2463	1075	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2464	1076	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2465	1077	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994

##	2466	1078	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2467	1079	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2468	1080	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2469	1081	response	faminc	eY/eX	0.0231371258	0.0072383919	3.196446
##	2470	1082	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2471	1083	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2472	1084	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2473	1085	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2474	1086	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2475	1087	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2476	1088	response	faminc	eY/eX	0.0150465088	0.0047596709	3.161250
##	2477	1089	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2478	1090	response	faminc	eY/eX	0.0333725126	0.0103730823	3.217222
##	2479	1091	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2480	1092	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2481	1093	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
##	2482	1094	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2483	1095	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
##	2484	1096	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2485	1097	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2486	1098	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2487	1099	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2488	1100	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2489	1101	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2490	1102	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2491	1103	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2492	1104	response	faminc	eY/eX	0.0027899891	0.0008958397	3.114384
##	2493	1105	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2494	1106	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2495	1107	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2496	1108	response	faminc	eY/eX	0.0081157324	0.0025780699	3.147988
##	2497	1109	response	faminc	eY/eX	0.0037021159	0.0011845949	3.125217
##	2498	1110	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2499	1111	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2500	1112	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2501	1113	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2502	1114	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2503	1115	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	2504	1116	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750

##	2505	1117	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2506	1118	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2507	1119	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2508	1120	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2509	1121	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2510	1122	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2511	1123	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2512	1124	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2513	1125	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2514	1126	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2515	1127	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2516	1128	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2517	1129	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2518	1130	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2519	1131	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2520	1132	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2521	1133	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2522	1134	response	faminc	eY/eX	0.0139055073	0.0044121971	3.151606
##	2523	1135	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2524	1136	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2525	1137	response	faminc	eY/eX	0.0333725126	0.0103730823	3.217222
##	2526	1138	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2527	1139	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2528	1140	response	faminc	eY/eX	0.0182404663	0.0057512869	3.171545
##	2529	1141	response	faminc	eY/eX	0.0177376293	0.0056080701	3.162876
##	2530	1142	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2531	1143	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2532	1144	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2533	1145	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2534	1146	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2535	1147	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2536	1148	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	2537	1149	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2538	1150	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2539	1151	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2540	1152	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2541	1153	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2542	1154	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2543	1155	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313

##	2544	1156	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2545	1157	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2546	1158	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2547	1159	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2548	1160	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2549	1161	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2550	1162	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2551	1163	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2552	1164	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2553	1165	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2554	1166	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2555	1167	response	faminc	eY/eX	0.0115953742	0.0036866249	3.145255
##	2556	1168	response	faminc	eY/eX	0.0256208389	0.0080301624	3.190575
##	2557	1169	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2558	1170	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2559	1171	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2560	1172	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2561	1173	response	faminc	eY/eX	0.0530150924	0.0160778486	3.297400
##	2562	1174	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2563	1175	response	faminc	eY/eX	0.0179496956	0.0056683629	3.166645
##	2564	1176	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	2565	1177	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2566	1178	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2567	1179	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2568	1180	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2569	1181	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2570	1182	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2571	1183	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	2572	1184	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2573	1185	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2574	1186	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2575	1187	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2576	1188	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2577	1189	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2578	1190	response	faminc	eY/eX	0.0081157324	0.0025780699	3.147988
##	2579	1191	response	faminc	eY/eX	0.0161752766	0.0051033642	3.169532
##	2580	1192	response	faminc	eY/eX	0.0090374969	0.0028855963	3.131934
##	2581	1193	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2582	1194	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313

##	2583	1195	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2584	1196	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2585	1197	response	faminc	eY/eX	0.0036719343	0.0011756985	3.123194
##	2586	1198	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2587	1199	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2588	1200	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2589	1201	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2590	1202	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2591	1203	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2592	1204	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2593	1205	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	2594	1206	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2595	1207	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2596	1208	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2597	1209	response	faminc	eY/eX	0.0036275734	0.0011626553	3.120076
##	2598	1210	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2599	1211	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2600	1212	response	faminc	eY/eX	0.0012370919	0.0003968224	3.117495
##	2601	1213	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2602	1214	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2603	1215	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2604	1216	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2605	1217	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2606	1218	response	faminc	eY/eX	0.0003963610	0.0001276594	3.104831
##	2607	1219	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2608	1220	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2609	1221	response	faminc	eY/eX	0.0105925867	0.0033768103	3.136862
##	2610	1222	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2611	1223	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2612	1224	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2613	1225	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2614	1226	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2615	1227	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2616	1228	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2617	1229	response	faminc	eY/eX	0.0071156888	0.0022657232	3.140582
##	2618	1230	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2619	1231	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2620	1232	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2621	1233	response	faminc	eY/eX	0.0513415926	0.0156324511	3.284296

##	2622	1234	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2623	1235	response	faminc	eY/eX	0.0182404663	0.0057512869	3.171545
##	2624	1236	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2625	1237	response	faminc	eY/eX	0.0019786680	0.0006362769	3.109759
##	2626	1238	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2627	1239	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2628	1240	response	faminc	eY/eX	0.0004846452	0.0001545148	3.136562
##	2629	1241	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2630	1242	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2631	1243	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2632	1244	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2633	1245	response	faminc	eY/eX	0.0089623635	0.0028445810	3.150680
##	2634	1246	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2635	1247	response	faminc	eY/eX	0.0074775110	0.0023912683	3.127006
##	2636	1248	response	faminc	eY/eX	0.0178784457	0.0056480890	3.165397
##	2637	1249	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2638	1250	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2639	1251	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2640	1252	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
##	2641	1253	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2642	1254	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2643	1255	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2644	1256	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2645	1257	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2646	1258	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2647	1259	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2648	1260	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2649	1261	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2650	1262	response	faminc	eY/eX	0.0059126058	0.0018938044	3.122078
##	2651	1263	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2652	1264	response	faminc	eY/eX	0.0207630527	0.0064876029	3.200420
##	2653	1265	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2654	1266	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2655	1267	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2656	1268	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2657	1269	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2658	1270	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2659	1271	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2660	1272	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356

##	2661	1273	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2662	1274	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2663	1275	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2664	1276	response	faminc	eY/eX	0.0055671373	0.0017730238	3.139911
##	2665	1277	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2666	1278	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2667	1279	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2668	1280	response	faminc	eY/eX	0.0341768978	0.0105946347	3.225868
##	2669	1281	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2670	1282	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2671	1283	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2672	1284	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2673	1285	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2674	1286	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2675	1287	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2676	1288	response	faminc	eY/eX	0.0222039012	0.0069726802	3.184414
##	2677	1289	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2678	1290	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2679	1291	response	faminc	eY/eX	0.0038607854	0.0012316963	3.134527
##	2680	1292	response	faminc	eY/eX	0.0100120251	0.0031883207	3.140219
##	2681	1293	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2682	1294	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2683	1295	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2684	1296	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2685	1297	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2686	1298	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2687	1299	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2688	1300	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2689	1301	response	faminc	eY/eX	0.0027679445	0.0008893786	3.112223
##	2690	1302	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2691	1303	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2692	1304	response	faminc	eY/eX	0.0264753882	0.0082212607	3.220356
##	2693	1305	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2694	1306	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2695	1307	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2696	1308	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645
##	2697	1309	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2698	1310	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2699	1311	response	faminc	eY/eX	0.0152287090	0.0048319879	3.151645

##	2700	1312	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2701	1313	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2702	1314	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2703	1315	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2704	1316	response	faminc	eY/eX	0.0190103474	0.0059724902	3.182985
##	2705	1317	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2706	1318	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2707	1319	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2708	1320	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2709	1321	response	faminc	eY/eX	0.0113683028	0.0036212565	3.139325
##	2710	1322	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2711	1323	response	faminc	eY/eX	0.0499616193	0.0152675559	3.272405
##	2712	1324	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2713	1325	response	faminc	eY/eX	0.0186174511	0.0058592838	3.177428
##	2714	1326	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2715	1327	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2716	1328	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2717	1329	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2718	1330	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2719	1331	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2720	1332	response	faminc	eY/eX	0.0182404663	0.0057512869	3.171545
##	2721	1333	response	faminc	eY/eX	0.0036869633	0.0011801262	3.124211
##	2722	1334	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2723	1335	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2724	1336	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2725	1337	response	faminc	eY/eX	0.0046158616	0.0014734517	3.132686
##	2726	1338	response	faminc	eY/eX	0.0129160916	0.0041078407	3.144253
##	2727	1339	response	faminc	eY/eX	0.0136881700	0.0043499845	3.146717
##	2728	1340	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2729	1341	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2730	1342	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2731	1343	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2732	1344	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2733	1345	response	faminc	eY/eX	0.0053387165	0.0017054617	3.130364
##	2734	1346	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2735	1347	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2736	1348	response	faminc	eY/eX	0.0079461766	0.0025280422	3.143214
##	2737	1349	response	faminc	eY/eX	0.0272293289	0.0084829051	3.209906
##	2738	1350	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036

##	2739	1351	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2740	1352	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2741	1353	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2742	1354	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2743	1355	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2744	1356	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2745	1357	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2746	1358	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2747	1359	response	faminc	eY/eX	0.0051283013	0.0016438894	3.119615
##	2748	1360	response	faminc	eY/eX	0.0099325406	0.0031653306	3.137916
##	2749	1361	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2750	1362	response	faminc	eY/eX	0.0045210889	0.0014454577	3.127791
##	2751	1363	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2752	1364	response	faminc	eY/eX	0.0082581174	0.0026388230	3.129470
##	2753	1365	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2754	1366	response	faminc	eY/eX	0.0251260898	0.0078921656	3.183675
##	2755	1367	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2756	1368	response	faminc	eY/eX	0.0104293250	0.0033097315	3.151109
##	2757	1369	response	faminc	eY/eX	0.0066956748	0.0021429298	3.124542
##	2758	1370	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2759	1371	response	faminc	eY/eX	0.0035559735	0.0011416793	3.114687
##	2760	1372	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##	2761	1373	response	faminc	eY/eX	0.0144590415	0.0045913659	3.149181
##	2762	1374	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2763	1375	response	faminc	eY/eX	0.0326051207	0.0101626981	3.208313
##	2764	1376	response	faminc	eY/eX	0.0148485538	0.0046847892	3.169524
##	2765	1377	response	faminc	eY/eX	0.0363017675	0.0112716258	3.220633
##	2766	1378	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2767	1379	response	faminc	eY/eX	0.0121428034	0.0038649323	3.141789
##	2768	1380	response	faminc	eY/eX	0.0011881412	0.0003823715	3.107295
##	2769	1381	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2770	1382	response	faminc	eY/eX	0.0098156524	0.0031315912	3.134398
##	2771	1383	response	faminc	eY/eX	0.0175305155	0.0055493237	3.159036
##	2772	1384	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2773	1385	response	faminc	eY/eX	0.0043427582	0.0013931819	3.117151
##	2774	1386	response	faminc	eY/eX	0.0490204864	0.0150196804	3.263750
##	2775	1387	response	faminc	eY/eX	0.0213430401	0.0067299422	3.171356
##	2776	1388	response	faminc	eY/eX	0.0288800049	0.0090363133	3.195994
##			p.value	conf.low	conf.high	predicted_lo	predicted_hi	bwght

## 1	NaN	0.0000000000	0.0000000000	118.22645	118.22414	109
## 2	NaN	0.0000000000	0.0000000000	117.66987	117.66755	133
## 3	NaN	0.0000000000	0.0000000000	117.02051	117.01820	129
## 4	NaN	0.0000000000	0.0000000000	118.41198	118.40967	126
## 5	NaN	0.0000000000	0.0000000000	119.52516	119.52284	134
## 6	NaN	0.0000000000	0.0000000000	117.66987	117.66755	118
## 7	NaN	0.0000000000	0.0000000000	123.00384	123.00152	140
## 8	NaN	0.0000000000	0.0000000000	119.52516	119.52284	86
## 9	NaN	0.0000000000	0.0000000000	119.52516	119.52284	121
## 10	NaN	0.0000000000	0.0000000000	120.45281	120.45049	129
## 11	NaN	0.0000000000	0.0000000000	119.52516	119.52284	101
## 12	NaN	0.0000000000	0.0000000000	119.52516	119.52284	133
## 13	NaN	0.0000000000	0.0000000000	117.57710	117.57478	61
## 14	NaN	0.0000000000	0.0000000000	117.94816	117.94584	104
## 15	NaN	0.0000000000	0.0000000000	118.13369	118.13137	92
## 16	NaN	0.0000000000	0.0000000000	118.59751	118.59520	122
## 17	NaN	0.0000000000	0.0000000000	120.91663	120.91431	159
## 18	NaN	0.0000000000	0.0000000000	117.39157	117.38925	154
## 19	NaN	0.0000000000	0.0000000000	119.98898	119.98667	120
## 20	NaN	0.0000000000	0.0000000000	117.57710	117.57478	138
## 21	NaN	0.0000000000	0.0000000000	121.38046	121.37814	127
## 22	NaN	0.0000000000	0.0000000000	119.06134	119.05902	107
## 23	5.887642e-07	-0.0334811757	-0.0146102926	115.63154	115.62922	129
## 24	NaN	0.0000000000	0.0000000000	118.22645	118.22414	129
## 25	NaN	0.0000000000	0.0000000000	120.45281	120.45049	156
## 26	NaN	0.0000000000	0.0000000000	117.20604	117.20373	124
## 27	NaN	0.0000000000	0.0000000000	117.20604	117.20373	79
## 28	NaN	0.0000000000	0.0000000000	119.98898	119.98667	112
## 29	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 30	NaN	0.0000000000	0.0000000000	117.02051	117.01820	134
## 31	NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 32	NaN	0.0000000000	0.0000000000	123.00384	123.00152	124
## 33	NaN	0.0000000000	0.0000000000	123.00384	123.00152	122
## 34	NaN	0.0000000000	0.0000000000	119.52516	119.52284	104
## 35	NaN	0.0000000000	0.0000000000	117.66987	117.66755	105
## 36	NaN	0.0000000000	0.0000000000	121.38046	121.37814	113
## 37	NaN	0.0000000000	0.0000000000	123.00384	123.00152	131
## 38	NaN	0.0000000000	0.0000000000	123.00384	123.00152	107
## 39	NaN	0.0000000000	0.0000000000	119.98898	119.98667	115

## 40		NaN	0.0000000000	0.0000000000	118.22645	118.22414	97
## 41		NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 42		NaN	0.0000000000	0.0000000000	121.38046	121.37814	132
## 43		NaN	0.0000000000	0.0000000000	120.45281	120.45049	108
## 44		NaN	0.0000000000	0.0000000000	119.98898	119.98667	114
## 45		NaN	0.0000000000	0.0000000000	118.69028	118.68796	134
## 46		NaN	0.0000000000	0.0000000000	123.00384	123.00152	134
## 47		NaN	0.0000000000	0.0000000000	123.00384	123.00152	141
## 48		NaN	0.0000000000	0.0000000000	118.04092	118.03861	84
## 49		NaN	0.0000000000	0.0000000000	119.98898	119.98667	88
## 50		NaN	0.0000000000	0.0000000000	123.00384	123.00152	130
## 51		NaN	0.0000000000	0.0000000000	118.59751	118.59520	132
## 52		NaN	0.0000000000	0.0000000000	118.50475	118.50243	133
## 53		NaN	0.0000000000	0.0000000000	119.06134	119.05902	108
## 54		NaN	0.0000000000	0.0000000000	120.91663	120.91431	92
## 55		NaN	0.0000000000	0.0000000000	119.98898	119.98667	127
## 56		NaN	0.0000000000	0.0000000000	118.04092	118.03861	131
## 57		NaN	0.0000000000	0.0000000000	123.00384	123.00152	104
## 58		NaN	0.0000000000	0.0000000000	119.52516	119.52284	122
## 59		NaN	0.0000000000	0.0000000000	119.52516	119.52284	97
## 60		NaN	0.0000000000	0.0000000000	118.59751	118.59520	122
## 61		NaN	0.0000000000	0.0000000000	123.00384	123.00152	118
## 62		NaN	0.0000000000	0.0000000000	117.29881	117.29649	140
## 63		NaN	0.0000000000	0.0000000000	117.02051	117.01820	131
## 64	8.354879e-07	-0.0576364472	-0.0248303612		112.38644	112.38412	104
## 65		NaN	0.0000000000	0.0000000000	117.29881	117.29649	114
## 66		NaN	0.0000000000	0.0000000000	123.00384	123.00152	141
## 67		NaN	0.0000000000	0.0000000000	119.06134	119.05902	107
## 68		NaN	0.0000000000	0.0000000000	119.06134	119.05902	152
## 69	2.361702e-06	-0.1210031387	-0.0499932479		108.40172	108.39940	119
## 70		NaN	0.0000000000	0.0000000000	119.52516	119.52284	135
## 71		NaN	0.0000000000	0.0000000000	118.69028	118.68796	138
## 72		NaN	0.0000000000	0.0000000000	120.45281	120.45049	108
## 73		NaN	0.0000000000	0.0000000000	119.06134	119.05902	97
## 74		NaN	0.0000000000	0.0000000000	119.52516	119.52284	131
## 75	1.606046e-05	-0.2691713270	-0.1009847517		100.15398	100.15166	115
## 76		NaN	0.0000000000	0.0000000000	119.06134	119.05902	123
## 77		NaN	0.0000000000	0.0000000000	117.02051	117.01820	115
## 78		NaN	0.0000000000	0.0000000000	119.98898	119.98667	132

## 79		NaN	0.0000000000	0.0000000000	119.52516	119.52284	133
## 80		NaN	0.0000000000	0.0000000000	119.98898	119.98667	125
## 81		NaN	0.0000000000	0.0000000000	118.41198	118.40967	117
## 82		NaN	0.0000000000	0.0000000000	118.50475	118.50243	116
## 83		NaN	0.0000000000	0.0000000000	118.78304	118.78073	152
## 84		NaN	0.0000000000	0.0000000000	118.41198	118.40967	101
## 85		NaN	0.0000000000	0.0000000000	118.31922	118.31690	107
## 86		NaN	0.0000000000	0.0000000000	119.98898	119.98667	136
## 87		NaN	0.0000000000	0.0000000000	118.31922	118.31690	120
## 88		NaN	0.0000000000	0.0000000000	117.76263	117.76031	127
## 89		NaN	0.0000000000	0.0000000000	117.76263	117.76031	123
## 90		NaN	0.0000000000	0.0000000000	117.66987	117.66755	135
## 91		NaN	0.0000000000	0.0000000000	119.98898	119.98667	86
## 92		NaN	0.0000000000	0.0000000000	123.00384	123.00152	97
## 93	8.591174e-07	-0.0573234201	-0.0246696438		113.03579	113.03347	93
## 94		NaN	0.0000000000	0.0000000000	119.52516	119.52284	96
## 95	8.810191e-07	-0.0570588279	-0.0245324803		113.59238	113.59006	109
## 96		NaN	0.0000000000	0.0000000000	119.52516	119.52284	117
## 97		NaN	0.0000000000	0.0000000000	118.69028	118.68796	115
## 98	2.477744e-06	-0.1195422896	-0.0492869633		109.79319	109.79087	121
## 99		NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 100		NaN	0.0000000000	0.0000000000	119.06134	119.05902	118
## 101		NaN	0.0000000000	0.0000000000	120.91663	120.91431	134
## 102		NaN	0.0000000000	0.0000000000	120.45281	120.45049	156
## 103	4.218562e-07	-0.0165352061	-0.0073004433		116.65070	116.64839	139
## 104		NaN	0.0000000000	0.0000000000	123.00384	123.00152	136
## 105		NaN	0.0000000000	0.0000000000	117.66987	117.66755	115
## 106		NaN	0.0000000000	0.0000000000	119.06134	119.05902	23
## 107		NaN	0.0000000000	0.0000000000	123.00384	123.00152	135
## 108	9.382882e-07	-0.0564543350	-0.0242146809		114.89109	114.88877	106
## 109		NaN	0.0000000000	0.0000000000	117.66987	117.66755	116
## 110		NaN	0.0000000000	0.0000000000	123.00384	123.00152	147
## 111		NaN	0.0000000000	0.0000000000	117.76263	117.76031	115
## 112		NaN	0.0000000000	0.0000000000	118.13369	118.13137	85
## 113		NaN	0.0000000000	0.0000000000	120.45281	120.45049	102
## 114		NaN	0.0000000000	0.0000000000	118.31922	118.31690	122
## 115		NaN	0.0000000000	0.0000000000	123.00384	123.00152	109
## 116	2.616132e-06	-0.1181280852	-0.0485882771		111.18466	111.18234	97
## 117		NaN	0.0000000000	0.0000000000	119.52516	119.52284	136

## 118	NaN	0.0000000000	0.0000000000	123.00384	123.00152	131
## 119	NaN	0.0000000000	0.0000000000	119.98898	119.98667	116
## 120	NaN	0.0000000000	0.0000000000	117.57710	117.57478	86
## 121	NaN	0.0000000000	0.0000000000	123.00384	123.00152	155
## 122	1.585288e-05	-0.2721400839	-0.1021763932	99.04080	99.03848	122
## 123	NaN	0.0000000000	0.0000000000	123.00384	123.00152	105
## 124	NaN	0.0000000000	0.0000000000	123.00384	123.00152	131
## 125	NaN	0.0000000000	0.0000000000	117.66987	117.66755	126
## 126	NaN	0.0000000000	0.0000000000	118.59751	118.59520	127
## 127	NaN	0.0000000000	0.0000000000	119.52516	119.52284	125
## 128	NaN	0.0000000000	0.0000000000	120.45281	120.45049	98
## 129	NaN	0.0000000000	0.0000000000	119.06134	119.05902	144
## 130	NaN	0.0000000000	0.0000000000	119.06134	119.05902	91
## 131	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 132	NaN	0.0000000000	0.0000000000	120.91663	120.91431	128
## 133	NaN	0.0000000000	0.0000000000	117.20604	117.20373	144
## 134	NaN	0.0000000000	0.0000000000	117.94816	117.94584	91
## 135	NaN	0.0000000000	0.0000000000	120.91663	120.91431	122
## 136	NaN	0.0000000000	0.0000000000	118.31922	118.31690	139
## 137	NaN	0.0000000000	0.0000000000	120.91663	120.91431	126
## 138	NaN	0.0000000000	0.0000000000	119.98898	119.98667	107
## 139	NaN	0.0000000000	0.0000000000	117.29881	117.29649	79
## 140	NaN	0.0000000000	0.0000000000	120.91663	120.91431	102
## 141	NaN	0.0000000000	0.0000000000	118.41198	118.40967	126
## 142	NaN	0.0000000000	0.0000000000	119.98898	119.98667	120
## 143	NaN	0.0000000000	0.0000000000	118.78304	118.78073	101
## 144	NaN	0.0000000000	0.0000000000	120.91663	120.91431	131
## 145	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 146	NaN	0.0000000000	0.0000000000	118.22645	118.22414	142
## 147	NaN	0.0000000000	0.0000000000	119.52516	119.52284	144
## 148	NaN	0.0000000000	0.0000000000	120.91663	120.91431	58
## 149	NaN	0.0000000000	0.0000000000	117.48434	117.48202	88
## 150	NaN	0.0000000000	0.0000000000	117.48434	117.48202	123
## 151	NaN	0.0000000000	0.0000000000	123.00384	123.00152	146
## 152	NaN	0.0000000000	0.0000000000	119.06134	119.05902	135
## 153	NaN	0.0000000000	0.0000000000	118.69028	118.68796	125
## 154	NaN	0.0000000000	0.0000000000	119.52516	119.52284	125
## 155	NaN	0.0000000000	0.0000000000	123.00384	123.00152	99
## 156	5.233611e-07	-0.0218198792	-0.0095615844	118.13535	118.13304	120

## 157	NaN	0.0000000000	0.0000000000	119.06134	119.05902	114
## 158	NaN	0.0000000000	0.0000000000	120.45281	120.45049	88
## 159	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 160	NaN	0.0000000000	0.0000000000	117.11328	117.11096	123
## 161	NaN	0.0000000000	0.0000000000	119.52516	119.52284	135
## 162	NaN	0.0000000000	0.0000000000	121.38046	121.37814	116
## 163	NaN	0.0000000000	0.0000000000	119.98898	119.98667	128
## 164	NaN	0.0000000000	0.0000000000	123.00384	123.00152	111
## 165	NaN	0.0000000000	0.0000000000	117.76263	117.76031	123
## 166	NaN	0.0000000000	0.0000000000	123.00384	123.00152	115
## 167	NaN	0.0000000000	0.0000000000	119.52516	119.52284	167
## 168	NaN	0.0000000000	0.0000000000	120.45281	120.45049	82
## 169	NaN	0.0000000000	0.0000000000	120.45281	120.45049	121
## 170	NaN	0.0000000000	0.0000000000	119.06134	119.05902	114
## 171	NaN	0.0000000000	0.0000000000	120.45281	120.45049	116
## 172	5.129921e-07	-0.0279043221	-0.0122364514	115.44559	115.44328	141
## 173	NaN	0.0000000000	0.0000000000	120.91663	120.91431	141
## 174	NaN	0.0000000000	0.0000000000	123.00384	123.00152	120
## 175	NaN	0.0000000000	0.0000000000	118.13369	118.13137	110
## 176	NaN	0.0000000000	0.0000000000	119.52516	119.52284	120
## 177	NaN	0.0000000000	0.0000000000	119.52516	119.52284	125
## 178	NaN	0.0000000000	0.0000000000	123.00384	123.00152	82
## 179	NaN	0.0000000000	0.0000000000	119.06134	119.05902	141
## 180	NaN	0.0000000000	0.0000000000	118.69028	118.68796	144
## 181	NaN	0.0000000000	0.0000000000	118.22645	118.22414	102
## 182	NaN	0.0000000000	0.0000000000	118.69028	118.68796	121
## 183	NaN	0.0000000000	0.0000000000	119.52516	119.52284	80
## 184	NaN	0.0000000000	0.0000000000	119.06134	119.05902	106
## 185	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 186	9.609207e-07	-0.0562426809	-0.0241019778	115.35491	115.35259	116
## 187	NaN	0.0000000000	0.0000000000	119.06134	119.05902	123
## 188	NaN	0.0000000000	0.0000000000	120.45281	120.45049	132
## 189	2.721323e-06	-0.1172099002	-0.0481270060	112.11230	112.10999	118
## 190	NaN	0.0000000000	0.0000000000	123.00384	123.00152	131
## 191	NaN	0.0000000000	0.0000000000	119.98898	119.98667	152
## 192	NaN	0.0000000000	0.0000000000	117.94816	117.94584	120
## 193	NaN	0.0000000000	0.0000000000	119.06134	119.05902	145
## 194	NaN	0.0000000000	0.0000000000	120.45281	120.45049	124
## 195	NaN	0.0000000000	0.0000000000	123.00384	123.00152	142

## 196	NaN	0.0000000000	0.0000000000	123.00384	123.00152	117
## 197	NaN	0.0000000000	0.0000000000	117.94816	117.94584	100
## 198	NaN	0.0000000000	0.0000000000	119.98898	119.98667	120
## 199	NaN	0.0000000000	0.0000000000	119.98898	119.98667	145
## 200	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 201	NaN	0.0000000000	0.0000000000	121.38046	121.37814	166
## 202	7.859155e-07	-0.0445338916	-0.0192295303	116.28172	116.27941	103
## 203	NaN	0.0000000000	0.0000000000	117.57710	117.57478	133
## 204	NaN	0.0000000000	0.0000000000	118.13369	118.13137	112
## 205	NaN	0.0000000000	0.0000000000	121.38046	121.37814	119
## 206	NaN	0.0000000000	0.0000000000	118.78304	118.78073	123
## 207	NaN	0.0000000000	0.0000000000	117.66987	117.66755	107
## 208	NaN	0.0000000000	0.0000000000	117.76263	117.76031	145
## 209	NaN	0.0000000000	0.0000000000	118.78304	118.78073	133
## 210	NaN	0.0000000000	0.0000000000	123.00384	123.00152	146
## 211	NaN	0.0000000000	0.0000000000	119.98898	119.98667	134
## 212	NaN	0.0000000000	0.0000000000	123.00384	123.00152	140
## 213	NaN	0.0000000000	0.0000000000	118.78304	118.78073	95
## 214	NaN	0.0000000000	0.0000000000	118.59751	118.59520	126
## 215	NaN	0.0000000000	0.0000000000	119.52516	119.52284	134
## 216	NaN	0.0000000000	0.0000000000	118.13369	118.13137	64
## 217	5.091946e-07	-0.0218994288	-0.0096057306	117.67153	117.66921	119
## 218	NaN	0.0000000000	0.0000000000	119.98898	119.98667	140
## 219	NaN	0.0000000000	0.0000000000	119.06134	119.05902	120
## 220	NaN	0.0000000000	0.0000000000	118.69028	118.68796	103
## 221	2.567460e-06	-0.1185944688	-0.0488202895	110.72083	110.71852	68
## 222	NaN	0.0000000000	0.0000000000	120.91663	120.91431	97
## 223	NaN	0.0000000000	0.0000000000	120.45281	120.45049	120
## 224	NaN	0.0000000000	0.0000000000	119.98898	119.98667	121
## 225	NaN	0.0000000000	0.0000000000	117.85540	117.85308	130
## 226	8.886653e-07	-0.0569713783	-0.0244868848	113.77791	113.77559	115
## 227	NaN	0.0000000000	0.0000000000	123.00384	123.00152	112
## 228	NaN	0.0000000000	0.0000000000	123.00384	123.00152	120
## 229	1.121923e-06	-0.0687168239	-0.0292720501	113.50045	113.49813	103
## 230	NaN	0.0000000000	0.0000000000	119.98898	119.98667	100
## 231	NaN	0.0000000000	0.0000000000	123.00384	123.00152	117
## 232	NaN	0.0000000000	0.0000000000	123.00384	123.00152	126
## 233	NaN	0.0000000000	0.0000000000	117.48434	117.48202	142
## 234	NaN	0.0000000000	0.0000000000	119.06134	119.05902	120

## 235	NaN	0.0000000000	0.0000000000	118.22645	118.22414	111
## 236	NaN	0.0000000000	0.0000000000	123.00384	123.00152	152
## 237	NaN	0.0000000000	0.0000000000	123.00384	123.00152	124
## 238	NaN	0.0000000000	0.0000000000	119.52516	119.52284	146
## 239	NaN	0.0000000000	0.0000000000	119.52516	119.52284	102
## 240	NaN	0.0000000000	0.0000000000	119.52516	119.52284	129
## 241	NaN	0.0000000000	0.0000000000	117.94816	117.94584	125
## 242	NaN	0.0000000000	0.0000000000	117.85540	117.85308	126
## 243	NaN	0.0000000000	0.0000000000	117.02051	117.01820	101
## 244	NaN	0.0000000000	0.0000000000	119.98898	119.98667	113
## 245	NaN	0.0000000000	0.0000000000	118.78304	118.78073	136
## 246	NaN	0.0000000000	0.0000000000	120.91663	120.91431	101
## 247	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 248	NaN	0.0000000000	0.0000000000	123.00384	123.00152	100
## 249	NaN	0.0000000000	0.0000000000	120.91663	120.91431	130
## 250	NaN	0.0000000000	0.0000000000	120.45281	120.45049	136
## 251	NaN	0.0000000000	0.0000000000	117.57710	117.57478	100
## 252	NaN	0.0000000000	0.0000000000	123.00384	123.00152	122
## 253	NaN	0.0000000000	0.0000000000	117.11328	117.11096	90
## 254	NaN	0.0000000000	0.0000000000	123.00384	123.00152	94
## 255	NaN	0.0000000000	0.0000000000	119.98898	119.98667	108
## 256	NaN	0.0000000000	0.0000000000	123.00384	123.00152	107
## 257	2.436625e-06	-0.1200239220	-0.0495215794	109.32936	109.32705	119
## 258	NaN	0.0000000000	0.0000000000	118.69028	118.68796	106
## 259	NaN	0.0000000000	0.0000000000	118.22645	118.22414	113
## 260	NaN	0.0000000000	0.0000000000	117.94816	117.94584	132
## 261	NaN	0.0000000000	0.0000000000	118.69028	118.68796	99
## 262	8.810191e-07	-0.0570588279	-0.0245324803	113.59238	113.59006	110
## 263	9.609207e-07	-0.0562426809	-0.0241019778	115.35491	115.35259	76
## 264	NaN	0.0000000000	0.0000000000	118.41198	118.40967	123
## 265	NaN	0.0000000000	0.0000000000	117.94816	117.94584	123
## 266	NaN	0.0000000000	0.0000000000	119.98898	119.98667	129
## 267	NaN	0.0000000000	0.0000000000	118.22645	118.22414	95
## 268	NaN	0.0000000000	0.0000000000	118.50475	118.50243	118
## 269	2.354740e-06	-0.1211022548	-0.0500405873	108.30895	108.30663	115
## 270	NaN	0.0000000000	0.0000000000	117.76263	117.76031	133
## 271	NaN	0.0000000000	0.0000000000	119.06134	119.05902	139
## 272	NaN	0.0000000000	0.0000000000	119.52516	119.52284	124
## 273	2.397954e-06	-0.1205108371	-0.0497570162	108.86554	108.86322	60

## 274	NaN	0.0000000000	0.0000000000	118.78304	118.78073	87
## 275	NaN	0.0000000000	0.0000000000	123.00384	123.00152	130
## 276	NaN	0.0000000000	0.0000000000	123.00384	123.00152	110
## 277	NaN	0.0000000000	0.0000000000	118.41198	118.40967	73
## 278	NaN	0.0000000000	0.0000000000	120.45281	120.45049	126
## 279	NaN	0.0000000000	0.0000000000	121.38046	121.37814	125
## 280	NaN	0.0000000000	0.0000000000	121.38046	121.37814	166
## 281	NaN	0.0000000000	0.0000000000	120.45281	120.45049	122
## 282	5.233611e-07	-0.0218198792	-0.0095615844	118.13535	118.13304	120
## 283	NaN	0.0000000000	0.0000000000	123.00384	123.00152	143
## 284	NaN	0.0000000000	0.0000000000	119.52516	119.52284	122
## 285	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 286	NaN	0.0000000000	0.0000000000	123.00384	123.00152	126
## 287	NaN	0.0000000000	0.0000000000	119.98898	119.98667	156
## 288	NaN	0.0000000000	0.0000000000	119.06134	119.05902	129
## 289	NaN	0.0000000000	0.0000000000	118.59751	118.59520	120
## 290	3.842930e-07	-0.0053739110	-0.0023802041	119.52558	119.52326	113
## 291	NaN	0.0000000000	0.0000000000	123.00384	123.00152	81
## 292	NaN	0.0000000000	0.0000000000	120.45281	120.45049	83
## 293	NaN	0.0000000000	0.0000000000	120.45281	120.45049	129
## 294	NaN	0.0000000000	0.0000000000	118.31922	118.31690	133
## 295	2.444652e-06	-0.1199271762	-0.0494745898	109.42213	109.41981	112
## 296	NaN	0.0000000000	0.0000000000	123.00384	123.00152	119
## 297	NaN	0.0000000000	0.0000000000	121.38046	121.37814	139
## 298	NaN	0.0000000000	0.0000000000	119.52516	119.52284	111
## 299	1.626118e-05	-0.2669991791	-0.1000967909	100.98886	100.98654	81
## 300	NaN	0.0000000000	0.0000000000	119.52516	119.52284	127
## 301	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 302	NaN	0.0000000000	0.0000000000	119.98898	119.98667	107
## 303	2.334426e-06	-0.1214009301	-0.0501827874	108.03066	108.02834	98
## 304	9.004642e-07	-0.0568408952	-0.0244186118	114.05620	114.05389	113
## 305	NaN	0.0000000000	0.0000000000	118.78304	118.78073	104
## 306	NaN	0.0000000000	0.0000000000	119.98898	119.98667	108
## 307	NaN	0.0000000000	0.0000000000	119.06134	119.05902	144
## 308	NaN	0.0000000000	0.0000000000	123.00384	123.00152	110
## 309	NaN	0.0000000000	0.0000000000	123.00384	123.00152	138
## 310	NaN	0.0000000000	0.0000000000	118.31922	118.31690	107
## 311	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 312	8.848204e-07	-0.0570150568	-0.0245096746	113.68514	113.68283	144

## 313	NaN	0.0000000000	0.0000000000	120.45281	120.45049	136
## 314	NaN	0.0000000000	0.0000000000	118.22645	118.22414	110
## 315	2.341102e-06	-0.1213011496	-0.0501353573	108.12342	108.12110	105
## 316	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 317	NaN	0.0000000000	0.0000000000	120.45281	120.45049	117
## 318	NaN	0.0000000000	0.0000000000	123.00384	123.00152	145
## 319	NaN	0.0000000000	0.0000000000	118.04092	118.03861	96
## 320	NaN	0.0000000000	0.0000000000	119.06134	119.05902	140
## 321	NaN	0.0000000000	0.0000000000	123.00384	123.00152	101
## 322	NaN	0.0000000000	0.0000000000	120.45281	120.45049	148
## 323	NaN	0.0000000000	0.0000000000	117.94816	117.94584	135
## 324	NaN	0.0000000000	0.0000000000	120.45281	120.45049	120
## 325	NaN	0.0000000000	0.0000000000	119.06134	119.05902	130
## 326	NaN	0.0000000000	0.0000000000	118.41198	118.40967	134
## 327	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 328	1.397668e-06	-0.0888033247	-0.0375008637	110.06940	110.06708	111
## 329	NaN	0.0000000000	0.0000000000	119.98898	119.98667	128
## 330	NaN	0.0000000000	0.0000000000	117.94816	117.94584	134
## 331	NaN	0.0000000000	0.0000000000	119.06134	119.05902	141
## 332	NaN	0.0000000000	0.0000000000	121.38046	121.37814	115
## 333	NaN	0.0000000000	0.0000000000	119.52516	119.52284	98
## 334	NaN	0.0000000000	0.0000000000	123.00384	123.00152	118
## 335	NaN	0.0000000000	0.0000000000	121.38046	121.37814	130
## 336	NaN	0.0000000000	0.0000000000	117.39157	117.38925	136
## 337	NaN	0.0000000000	0.0000000000	117.76263	117.76031	129
## 338	NaN	0.0000000000	0.0000000000	121.38046	121.37814	93
## 339	2.397954e-06	-0.1205108371	-0.0497570162	108.86554	108.86322	91
## 340	NaN	0.0000000000	0.0000000000	123.00384	123.00152	110
## 341	NaN	0.0000000000	0.0000000000	117.85540	117.85308	112
## 342	2.616132e-06	-0.1181280852	-0.0485882771	111.18466	111.18234	112
## 343	1.146850e-06	-0.0684546964	-0.0291353723	113.96427	113.96195	98
## 344	NaN	0.0000000000	0.0000000000	123.00384	123.00152	147
## 345	6.985057e-07	-0.0453804475	-0.0196805486	113.96261	113.96029	92
## 346	NaN	0.0000000000	0.0000000000	123.00384	123.00152	98
## 347	NaN	0.0000000000	0.0000000000	121.38046	121.37814	98
## 348	NaN	0.0000000000	0.0000000000	123.00384	123.00152	137
## 349	NaN	0.0000000000	0.0000000000	120.91663	120.91431	113
## 350	NaN	0.0000000000	0.0000000000	119.52516	119.52284	137
## 351	1.612503e-06	-0.0862660912	-0.0362186540	113.50170	113.49938	71

## 352	NaN	0.0000000000	0.0000000000	121.38046	121.37814	129
## 353	8.420312e-07	-0.0575465276	-0.0247843676	112.57197	112.56965	149
## 354	NaN	0.0000000000	0.0000000000	117.66987	117.66755	124
## 355	NaN	0.0000000000	0.0000000000	117.57710	117.57478	138
## 356	NaN	0.0000000000	0.0000000000	120.45281	120.45049	128
## 357	9.609207e-07	-0.0562426809	-0.0241019778	115.35491	115.35259	122
## 358	NaN	0.0000000000	0.0000000000	121.38046	121.37814	118
## 359	NaN	0.0000000000	0.0000000000	120.91663	120.91431	128
## 360	2.375914e-06	-0.1208055649	-0.0498986616	108.58724	108.58493	142
## 361	NaN	0.0000000000	0.0000000000	121.38046	121.37814	127
## 362	NaN	0.0000000000	0.0000000000	123.00384	123.00152	112
## 363	NaN	0.0000000000	0.0000000000	119.06134	119.05902	113
## 364	NaN	0.0000000000	0.0000000000	120.91663	120.91431	112
## 365	NaN	0.0000000000	0.0000000000	120.45281	120.45049	82
## 366	NaN	0.0000000000	0.0000000000	118.78304	118.78073	141
## 367	NaN	0.0000000000	0.0000000000	120.91663	120.91431	107
## 368	NaN	0.0000000000	0.0000000000	118.31922	118.31690	117
## 369	NaN	0.0000000000	0.0000000000	120.45281	120.45049	127
## 370	NaN	0.0000000000	0.0000000000	117.66987	117.66755	133
## 371	NaN	0.0000000000	0.0000000000	120.45281	120.45049	118
## 372	NaN	0.0000000000	0.0000000000	119.98898	119.98667	144
## 373	NaN	0.0000000000	0.0000000000	117.85540	117.85308	109
## 374	NaN	0.0000000000	0.0000000000	123.00384	123.00152	79
## 375	NaN	0.0000000000	0.0000000000	119.98898	119.98667	124
## 376	8.521572e-07	-0.0574123750	-0.0247154882	112.85026	112.84794	130
## 377	NaN	0.0000000000	0.0000000000	120.91663	120.91431	271
## 378	NaN	0.0000000000	0.0000000000	119.06134	119.05902	160
## 379	NaN	0.0000000000	0.0000000000	120.91663	120.91431	127
## 380	NaN	0.0000000000	0.0000000000	117.66987	117.66755	108
## 381	NaN	0.0000000000	0.0000000000	118.22645	118.22414	90
## 382	NaN	0.0000000000	0.0000000000	119.52516	119.52284	140
## 383	NaN	0.0000000000	0.0000000000	120.91663	120.91431	126
## 384	NaN	0.0000000000	0.0000000000	119.98898	119.98667	110
## 385	NaN	0.0000000000	0.0000000000	119.98898	119.98667	127
## 386	NaN	0.0000000000	0.0000000000	117.48434	117.48202	101
## 387	NaN	0.0000000000	0.0000000000	121.38046	121.37814	92
## 388	NaN	0.0000000000	0.0000000000	121.38046	121.37814	121
## 389	NaN	0.0000000000	0.0000000000	120.91663	120.91431	102
## 390	NaN	0.0000000000	0.0000000000	120.45281	120.45049	125

## 391		NaN	0.0000000000	0.0000000000	119.98898	119.98667	141
## 392		NaN	0.0000000000	0.0000000000	123.00384	123.00152	121
## 393		NaN	0.0000000000	0.0000000000	121.38046	121.37814	127
## 394		NaN	0.0000000000	0.0000000000	120.91663	120.91431	119
## 395		NaN	0.0000000000	0.0000000000	119.52516	119.52284	106
## 396		NaN	0.0000000000	0.0000000000	118.59751	118.59520	105
## 397		NaN	0.0000000000	0.0000000000	118.69028	118.68796	104
## 398		NaN	0.0000000000	0.0000000000	120.91663	120.91431	131
## 399		NaN	0.0000000000	0.0000000000	120.45281	120.45049	96
## 400		NaN	0.0000000000	0.0000000000	120.91663	120.91431	141
## 401		NaN	0.0000000000	0.0000000000	119.98898	119.98667	93
## 402		NaN	0.0000000000	0.0000000000	117.20604	117.20373	114
## 403		NaN	0.0000000000	0.0000000000	118.69028	118.68796	112
## 404		NaN	0.0000000000	0.0000000000	117.39157	117.38925	138
## 405		NaN	0.0000000000	0.0000000000	119.06134	119.05902	136
## 406	2.341102e-06	-0.1213011496	-0.0501353573	108.12342	108.12110	113	
## 407		NaN	0.0000000000	0.0000000000	119.52516	119.52284	105
## 408		NaN	0.0000000000	0.0000000000	118.78304	118.78073	120
## 409		NaN	0.0000000000	0.0000000000	119.52516	119.52284	35
## 410		NaN	0.0000000000	0.0000000000	118.78304	118.78073	149
## 411		NaN	0.0000000000	0.0000000000	118.69028	118.68796	122
## 412		NaN	0.0000000000	0.0000000000	119.06134	119.05902	146
## 413		NaN	0.0000000000	0.0000000000	119.06134	119.05902	161
## 414	2.321359e-06	-0.1216011616	-0.0502777370	107.84513	107.84281	142	
## 415		NaN	0.0000000000	0.0000000000	117.39157	117.38925	119
## 416	4.509238e-07	-0.0222928495	-0.0098198850	115.44518	115.44286	83	
## 417		NaN	0.0000000000	0.0000000000	117.29881	117.29649	136
## 418		NaN	0.0000000000	0.0000000000	120.91663	120.91431	116
## 419		NaN	0.0000000000	0.0000000000	120.45281	120.45049	93
## 420		NaN	0.0000000000	0.0000000000	119.06134	119.05902	110
## 421		NaN	0.0000000000	0.0000000000	120.45281	120.45049	124
## 422		NaN	0.0000000000	0.0000000000	118.41198	118.40967	123
## 423		NaN	0.0000000000	0.0000000000	119.52516	119.52284	129
## 424		NaN	0.0000000000	0.0000000000	119.98898	119.98667	106
## 425		NaN	0.0000000000	0.0000000000	119.06134	119.05902	130
## 426		NaN	0.0000000000	0.0000000000	119.52516	119.52284	111
## 427		NaN	0.0000000000	0.0000000000	119.52516	119.52284	115
## 428		NaN	0.0000000000	0.0000000000	117.39157	117.38925	110
## 429		NaN	0.0000000000	0.0000000000	119.52516	119.52284	117

## 430	NaN	0.0000000000	0.0000000000	119.06134	119.05902	113
## 431	NaN	0.0000000000	0.0000000000	119.52516	119.52284	114
## 432	NaN	0.0000000000	0.0000000000	118.78304	118.78073	146
## 433	2.341102e-06	-0.1213011496	-0.0501353573	108.12342	108.12110	98
## 434	8.735468e-07	-0.0571466495	-0.0245781391	113.40685	113.40453	143
## 435	NaN	0.0000000000	0.0000000000	119.52516	119.52284	116
## 436	6.698031e-06	-0.1872649095	-0.0736858230	106.55058	106.54826	116
## 437	NaN	0.0000000000	0.0000000000	117.57710	117.57478	75
## 438	NaN	0.0000000000	0.0000000000	119.98898	119.98667	139
## 439	NaN	0.0000000000	0.0000000000	118.69028	118.68796	120
## 440	NaN	0.0000000000	0.0000000000	119.98898	119.98667	146
## 441	NaN	0.0000000000	0.0000000000	120.91663	120.91431	145
## 442	NaN	0.0000000000	0.0000000000	119.06134	119.05902	136
## 443	NaN	0.0000000000	0.0000000000	118.50475	118.50243	120
## 444	NaN	0.0000000000	0.0000000000	120.91663	120.91431	106
## 445	1.612503e-06	-0.0862660912	-0.0362186540	113.50170	113.49938	109
## 446	NaN	0.0000000000	0.0000000000	118.22645	118.22414	97
## 447	NaN	0.0000000000	0.0000000000	119.06134	119.05902	30
## 448	NaN	0.0000000000	0.0000000000	119.06134	119.05902	122
## 449	NaN	0.0000000000	0.0000000000	120.45281	120.45049	130
## 450	NaN	0.0000000000	0.0000000000	119.52516	119.52284	115
## 451	NaN	0.0000000000	0.0000000000	118.50475	118.50243	116
## 452	NaN	0.0000000000	0.0000000000	121.38046	121.37814	134
## 453	NaN	0.0000000000	0.0000000000	119.06134	119.05902	127
## 454	NaN	0.0000000000	0.0000000000	119.06134	119.05902	101
## 455	NaN	0.0000000000	0.0000000000	121.38046	121.37814	145
## 456	NaN	0.0000000000	0.0000000000	119.06134	119.05902	128
## 457	NaN	0.0000000000	0.0000000000	118.31922	118.31690	130
## 458	NaN	0.0000000000	0.0000000000	118.50475	118.50243	138
## 459	NaN	0.0000000000	0.0000000000	118.31922	118.31690	133
## 460	NaN	0.0000000000	0.0000000000	118.69028	118.68796	106
## 461	NaN	0.0000000000	0.0000000000	117.29881	117.29649	135
## 462	1.545371e-06	-0.0869322473	-0.0365618127	112.57405	112.57173	104
## 463	NaN	0.0000000000	0.0000000000	119.06134	119.05902	107
## 464	NaN	0.0000000000	0.0000000000	118.59751	118.59520	98
## 465	NaN	0.0000000000	0.0000000000	118.69028	118.68796	123
## 466	NaN	0.0000000000	0.0000000000	117.02051	117.01820	96
## 467	NaN	0.0000000000	0.0000000000	118.59751	118.59520	119
## 468	NaN	0.0000000000	0.0000000000	118.69028	118.68796	134

## 469	NaN	0.0000000000	0.0000000000	117.02051	117.01820	83
## 470	NaN	0.0000000000	0.0000000000	120.45281	120.45049	161
## 471	5.105810e-07	-0.0279253501	-0.0122477039	115.35283	115.35051	109
## 472	NaN	0.0000000000	0.0000000000	118.69028	118.68796	113
## 473	NaN	0.0000000000	0.0000000000	117.39157	117.38925	98
## 474	NaN	0.0000000000	0.0000000000	119.52516	119.52284	138
## 475	NaN	0.0000000000	0.0000000000	117.57710	117.57478	120
## 476	NaN	0.0000000000	0.0000000000	119.52516	119.52284	112
## 477	NaN	0.0000000000	0.0000000000	118.04092	118.03861	104
## 478	NaN	0.0000000000	0.0000000000	120.91663	120.91431	103
## 479	NaN	0.0000000000	0.0000000000	119.06134	119.05902	156
## 480	NaN	0.0000000000	0.0000000000	118.78304	118.78073	119
## 481	NaN	0.0000000000	0.0000000000	123.00384	123.00152	134
## 482	NaN	0.0000000000	0.0000000000	120.45281	120.45049	149
## 483	NaN	0.0000000000	0.0000000000	120.91663	120.91431	106
## 484	NaN	0.0000000000	0.0000000000	120.91663	120.91431	112
## 485	NaN	0.0000000000	0.0000000000	120.45281	120.45049	139
## 486	NaN	0.0000000000	0.0000000000	121.38046	121.37814	137
## 487	2.413131e-06	-0.1203154306	-0.0496627447	109.05107	109.04875	90
## 488	NaN	0.0000000000	0.0000000000	119.98898	119.98667	137
## 489	2.420865e-06	-0.1202180484	-0.0496156571	109.14383	109.14152	140
## 490	NaN	0.0000000000	0.0000000000	119.98898	119.98667	126
## 491	NaN	0.0000000000	0.0000000000	118.69028	118.68796	112
## 492	NaN	0.0000000000	0.0000000000	117.20604	117.20373	60
## 493	NaN	0.0000000000	0.0000000000	117.48434	117.48202	109
## 494	NaN	0.0000000000	0.0000000000	121.38046	121.37814	129
## 495	5.012149e-07	-0.0280099076	-0.0122927893	114.98177	114.97945	104
## 496	NaN	0.0000000000	0.0000000000	120.91663	120.91431	71
## 497	NaN	0.0000000000	0.0000000000	117.57710	117.57478	86
## 498	NaN	0.0000000000	0.0000000000	119.98898	119.98667	124
## 499	NaN	0.0000000000	0.0000000000	121.38046	121.37814	112
## 500	NaN	0.0000000000	0.0000000000	117.29881	117.29649	79
## 501	NaN	0.0000000000	0.0000000000	119.52516	119.52284	95
## 502	NaN	0.0000000000	0.0000000000	119.06134	119.05902	100
## 503	NaN	0.0000000000	0.0000000000	119.52516	119.52284	100
## 504	NaN	0.0000000000	0.0000000000	118.69028	118.68796	105
## 505	2.397954e-06	-0.1205108371	-0.0497570162	108.86554	108.86322	107
## 506	NaN	0.0000000000	0.0000000000	117.02051	117.01820	141
## 507	NaN	0.0000000000	0.0000000000	117.11328	117.11096	142

## 508	5.958388e-07	-0.0273130915	-0.0119135998	118.13577	118.13345	99
## 509	5.386761e-07	-0.0276964484	-0.0121243505	116.37324	116.37092	112
## 510		NaN	0.0000000000	119.06134	119.05902	107
## 511		NaN	0.0000000000	121.38046	121.37814	147
## 512		NaN	0.0000000000	123.00384	123.00152	94
## 513		NaN	0.0000000000	123.00384	123.00152	148
## 514	6.292070e-06	-0.1914313679	-0.0755630611	104.13870	104.13638	91
## 515		NaN	0.0000000000	119.98898	119.98667	131
## 516		NaN	0.0000000000	119.06134	119.05902	102
## 517		NaN	0.0000000000	119.98898	119.98667	161
## 518		NaN	0.0000000000	123.00384	123.00152	120
## 519		NaN	0.0000000000	119.52516	119.52284	105
## 520		NaN	0.0000000000	118.69028	118.68796	112
## 521		NaN	0.0000000000	120.45281	120.45049	130
## 522		NaN	0.0000000000	119.98898	119.98667	136
## 523		NaN	0.0000000000	118.78304	118.78073	110
## 524		NaN	0.0000000000	119.06134	119.05902	124
## 525		NaN	0.0000000000	119.52516	119.52284	124
## 526		NaN	0.0000000000	119.06134	119.05902	134
## 527		NaN	0.0000000000	121.38046	121.37814	136
## 528		NaN	0.0000000000	119.06134	119.05902	120
## 529		NaN	0.0000000000	118.69028	118.68796	108
## 530		NaN	0.0000000000	118.59751	118.59520	122
## 531		NaN	0.0000000000	118.69028	118.68796	137
## 532	1.138738e-06	-0.0549179034	-0.0233803930	118.36976	118.36745	119
## 533		NaN	0.0000000000	119.98898	119.98667	144
## 534		NaN	0.0000000000	121.38046	121.37814	128
## 535		NaN	0.0000000000	118.22645	118.22414	104
## 536		NaN	0.0000000000	119.98898	119.98667	118
## 537		NaN	0.0000000000	123.00384	123.00152	93
## 538	6.777055e-07	-0.0328219356	-0.0142499282	118.13619	118.13387	138
## 539		NaN	0.0000000000	119.98898	119.98667	135
## 540		NaN	0.0000000000	120.91663	120.91431	128
## 541		NaN	0.0000000000	120.45281	120.45049	118
## 542		NaN	0.0000000000	117.85540	117.85308	114
## 543		NaN	0.0000000000	120.45281	120.45049	120
## 544		NaN	0.0000000000	123.00384	123.00152	113
## 545		NaN	0.0000000000	120.91663	120.91431	110
## 546		NaN	0.0000000000	120.45281	120.45049	106

## 547	2.375914e-06	-0.1208055649	-0.0498986616	108.58724	108.58493	125
## 548	NaN	0.0000000000	0.0000000000	118.78304	118.78073	107
## 549	NaN	0.0000000000	0.0000000000	118.78304	118.78073	130
## 550	NaN	0.0000000000	0.0000000000	121.38046	121.37814	116
## 551	6.128342e-07	-0.0272146296	-0.0118586525	118.59959	118.59728	102
## 552	NaN	0.0000000000	0.0000000000	119.52516	119.52284	112
## 553	2.931632e-06	-0.1156480000	-0.0473290038	113.73569	113.73337	124
## 554	NaN	0.0000000000	0.0000000000	119.98898	119.98667	118
## 555	NaN	0.0000000000	0.0000000000	121.38046	121.37814	125
## 556	NaN	0.0000000000	0.0000000000	123.00384	123.00152	103
## 557	NaN	0.0000000000	0.0000000000	117.57710	117.57478	115
## 558	NaN	0.0000000000	0.0000000000	120.91663	120.91431	136
## 559	9.044858e-07	-0.0567975837	-0.0243958866	114.14897	114.14665	120
## 560	5.211018e-07	-0.0105571841	-0.0046269195	122.07702	122.07471	139
## 561	NaN	0.0000000000	0.0000000000	119.52516	119.52284	137
## 562	5.958388e-07	-0.0273130915	-0.0119135998	118.13577	118.13345	120
## 563	NaN	0.0000000000	0.0000000000	119.52516	119.52284	113
## 564	NaN	0.0000000000	0.0000000000	119.06134	119.05902	102
## 565	NaN	0.0000000000	0.0000000000	119.52516	119.52284	132
## 566	3.959797e-07	-0.0053548133	-0.0023693280	119.98940	119.98708	141
## 567	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 568	2.521344e-06	-0.1190658382	-0.0490531922	110.25701	110.25469	103
## 569	NaN	0.0000000000	0.0000000000	119.98898	119.98667	117
## 570	NaN	0.0000000000	0.0000000000	119.98898	119.98667	113
## 571	NaN	0.0000000000	0.0000000000	120.45281	120.45049	136
## 572	NaN	0.0000000000	0.0000000000	120.45281	120.45049	128
## 573	NaN	0.0000000000	0.0000000000	118.78304	118.78073	110
## 574	NaN	0.0000000000	0.0000000000	123.00384	123.00152	110
## 575	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 576	NaN	0.0000000000	0.0000000000	119.98898	119.98667	150
## 577	NaN	0.0000000000	0.0000000000	120.91663	120.91431	117
## 578	NaN	0.0000000000	0.0000000000	119.06134	119.05902	142
## 579	NaN	0.0000000000	0.0000000000	119.06134	119.05902	111
## 580	8.925541e-07	-0.0569277921	-0.0244641110	113.87067	113.86836	101
## 581	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 582	NaN	0.0000000000	0.0000000000	119.06134	119.05902	120
## 583	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 584	8.810191e-07	-0.0570588279	-0.0245324803	113.59238	113.59006	94
## 585	NaN	0.0000000000	0.0000000000	119.98898	119.98667	110

## 586	NaN	0.0000000000	0.0000000000	120.45281	120.45049	87
## 587	NaN	0.0000000000	0.0000000000	120.45281	120.45049	109
## 588	NaN	0.0000000000	0.0000000000	119.52516	119.52284	112
## 589	2.354740e-06	-0.1211022548	-0.0500405873	108.30895	108.30663	108
## 590	NaN	0.0000000000	0.0000000000	118.78304	118.78073	139
## 591	NaN	0.0000000000	0.0000000000	119.98898	119.98667	104
## 592	NaN	0.0000000000	0.0000000000	119.06134	119.05902	121
## 593	NaN	0.0000000000	0.0000000000	123.00384	123.00152	110
## 594	NaN	0.0000000000	0.0000000000	119.52516	119.52284	155
## 595	NaN	0.0000000000	0.0000000000	118.69028	118.68796	147
## 596	NaN	0.0000000000	0.0000000000	121.38046	121.37814	117
## 597	NaN	0.0000000000	0.0000000000	117.11328	117.11096	113
## 598	NaN	0.0000000000	0.0000000000	120.91663	120.91431	136
## 599	NaN	0.0000000000	0.0000000000	117.11328	117.11096	105
## 600	NaN	0.0000000000	0.0000000000	123.00384	123.00152	129
## 601	NaN	0.0000000000	0.0000000000	119.06134	119.05902	114
## 602	NaN	0.0000000000	0.0000000000	120.91663	120.91431	109
## 603	NaN	0.0000000000	0.0000000000	117.02051	117.01820	108
## 604	NaN	0.0000000000	0.0000000000	121.38046	121.37814	142
## 605	NaN	0.0000000000	0.0000000000	123.00384	123.00152	99
## 606	2.390511e-06	-0.1206088631	-0.0498041998	108.77277	108.77046	79
## 607	2.347873e-06	-0.1212015915	-0.0500879571	108.21619	108.21387	102
## 608	NaN	0.0000000000	0.0000000000	123.00384	123.00152	74
## 609	4.035810e-07	-0.0166466578	-0.0073608159	115.81582	115.81350	109
## 610	NaN	0.0000000000	0.0000000000	123.00384	123.00152	142
## 611	9.609207e-07	-0.0562426809	-0.0241019778	115.35491	115.35259	98
## 612	NaN	0.0000000000	0.0000000000	117.20604	117.20373	128
## 613	NaN	0.0000000000	0.0000000000	121.38046	121.37814	107
## 614	NaN	0.0000000000	0.0000000000	117.48434	117.48202	97
## 615	NaN	0.0000000000	0.0000000000	123.00384	123.00152	125
## 616	2.390511e-06	-0.1206088631	-0.0498041998	108.77277	108.77046	75
## 617	1.614497e-05	-0.2682002930	-0.1005894621	100.52504	100.52272	136
## 618	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 619	NaN	0.0000000000	0.0000000000	118.22645	118.22414	104
## 620	NaN	0.0000000000	0.0000000000	119.52516	119.52284	72
## 621	NaN	0.0000000000	0.0000000000	123.00384	123.00152	112
## 622	2.567460e-06	-0.1185944688	-0.0488202895	110.72083	110.71852	120
## 623	NaN	0.0000000000	0.0000000000	123.00384	123.00152	103
## 624	NaN	0.0000000000	0.0000000000	117.76263	117.76031	122

## 625	NaN	0.0000000000	0.0000000000	119.52516	119.52284	136
## 626	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 627	NaN	0.0000000000	0.0000000000	119.98898	119.98667	138
## 628	6.925205e-07	-0.0454501139	-0.0197169733	113.77708	113.77476	50
## 629	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	75
## 630	NaN	0.0000000000	0.0000000000	117.48434	117.48202	93
## 631	NaN	0.0000000000	0.0000000000	119.52516	119.52284	119
## 632	NaN	0.0000000000	0.0000000000	117.66987	117.66755	117
## 633	8.487402e-07	-0.0574569961	-0.0247384330	112.75750	112.75518	102
## 634	NaN	0.0000000000	0.0000000000	120.91663	120.91431	112
## 635	NaN	0.0000000000	0.0000000000	119.98898	119.98667	106
## 636	NaN	0.0000000000	0.0000000000	119.06134	119.05902	108
## 637	NaN	0.0000000000	0.0000000000	119.52516	119.52284	112
## 638	NaN	0.0000000000	0.0000000000	121.38046	121.37814	145
## 639	NaN	0.0000000000	0.0000000000	119.98898	119.98667	134
## 640	NaN	0.0000000000	0.0000000000	117.29881	117.29649	117
## 641	7.103562e-07	-0.0387687196	-0.0168028102	116.74513	116.74281	114
## 642	NaN	0.0000000000	0.0000000000	117.85540	117.85308	52
## 643	NaN	0.0000000000	0.0000000000	121.38046	121.37814	125
## 644	NaN	0.0000000000	0.0000000000	120.91663	120.91431	127
## 645	NaN	0.0000000000	0.0000000000	117.85540	117.85308	132
## 646	NaN	0.0000000000	0.0000000000	118.69028	118.68796	100
## 647	NaN	0.0000000000	0.0000000000	120.45281	120.45049	80
## 648	NaN	0.0000000000	0.0000000000	119.52516	119.52284	124
## 649	NaN	0.0000000000	0.0000000000	120.45281	120.45049	123
## 650	NaN	0.0000000000	0.0000000000	118.69028	118.68796	121
## 651	NaN	0.0000000000	0.0000000000	123.00384	123.00152	136
## 652	NaN	0.0000000000	0.0000000000	119.98898	119.98667	152
## 653	NaN	0.0000000000	0.0000000000	119.52516	119.52284	132
## 654	NaN	0.0000000000	0.0000000000	123.00384	123.00152	143
## 655	7.480692e-07	-0.0448672355	-0.0194089553	115.35408	115.35176	114
## 656	NaN	0.0000000000	0.0000000000	123.00384	123.00152	88
## 657	NaN	0.0000000000	0.0000000000	120.45281	120.45049	81
## 658	NaN	0.0000000000	0.0000000000	119.06134	119.05902	115
## 659	NaN	0.0000000000	0.0000000000	121.38046	121.37814	150
## 660	NaN	0.0000000000	0.0000000000	120.91663	120.91431	141
## 661	NaN	0.0000000000	0.0000000000	118.13369	118.13137	125
## 662	NaN	0.0000000000	0.0000000000	118.69028	118.68796	135
## 663	2.354740e-06	-0.1211022548	-0.0500405873	108.30895	108.30663	120

## 664	NaN	0.0000000000	0.0000000000	120.91663	120.91431	83
## 665	NaN	0.0000000000	0.0000000000	119.52516	119.52284	143
## 666	NaN	0.0000000000	0.0000000000	123.00384	123.00152	153
## 667	NaN	0.0000000000	0.0000000000	123.00384	123.00152	150
## 668	NaN	0.0000000000	0.0000000000	119.52516	119.52284	152
## 669	9.382882e-07	-0.0564543350	-0.0242146809	114.89109	114.88877	148
## 670	NaN	0.0000000000	0.0000000000	120.91663	120.91431	123
## 671	NaN	0.0000000000	0.0000000000	119.52516	119.52284	117
## 672	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 673	NaN	0.0000000000	0.0000000000	123.00384	123.00152	92
## 674	NaN	0.0000000000	0.0000000000	119.52516	119.52284	115
## 675	NaN	0.0000000000	0.0000000000	119.52516	119.52284	105
## 676	NaN	0.0000000000	0.0000000000	123.00384	123.00152	141
## 677	NaN	0.0000000000	0.0000000000	118.31922	118.31690	104
## 678	NaN	0.0000000000	0.0000000000	119.06134	119.05902	156
## 679	NaN	0.0000000000	0.0000000000	117.94816	117.94584	131
## 680	NaN	0.0000000000	0.0000000000	118.41198	118.40967	117
## 681	NaN	0.0000000000	0.0000000000	119.98898	119.98667	141
## 682	NaN	0.0000000000	0.0000000000	119.98898	119.98667	138
## 683	NaN	0.0000000000	0.0000000000	117.39157	117.38925	136
## 684	NaN	0.0000000000	0.0000000000	117.57710	117.57478	149
## 685	NaN	0.0000000000	0.0000000000	117.76263	117.76031	144
## 686	NaN	0.0000000000	0.0000000000	119.98898	119.98667	123
## 687	NaN	0.0000000000	0.0000000000	119.98898	119.98667	114
## 688	NaN	0.0000000000	0.0000000000	119.98898	119.98667	100
## 689	NaN	0.0000000000	0.0000000000	121.38046	121.37814	127
## 690	2.436625e-06	-0.1200239220	-0.0495215794	109.32936	109.32705	92
## 691	NaN	0.0000000000	0.0000000000	120.45281	120.45049	138
## 692	NaN	0.0000000000	0.0000000000	119.52516	119.52284	139
## 693	NaN	0.0000000000	0.0000000000	117.66987	117.66755	124
## 694	NaN	0.0000000000	0.0000000000	117.94816	117.94584	132
## 695	NaN	0.0000000000	0.0000000000	119.06134	119.05902	151
## 696	NaN	0.0000000000	0.0000000000	119.52516	119.52284	126
## 697	5.796809e-07	-0.0274125448	-0.0119687651	117.67195	117.66963	95
## 698	NaN	0.0000000000	0.0000000000	120.45281	120.45049	115
## 699	NaN	0.0000000000	0.0000000000	117.39157	117.38925	109
## 700	NaN	0.0000000000	0.0000000000	117.20604	117.20373	86
## 701	NaN	0.0000000000	0.0000000000	121.38046	121.37814	128
## 702	9.168201e-07	-0.0566681933	-0.0243278095	114.42726	114.42494	94

## 703	NaN	0.0000000000	0.0000000000	117.11328	117.11096	144
## 704	NaN	0.0000000000	0.0000000000	119.06134	119.05902	92
## 705	NaN	0.0000000000	0.0000000000	119.52516	119.52284	117
## 706	NaN	0.0000000000	0.0000000000	123.00384	123.00152	130
## 707	NaN	0.0000000000	0.0000000000	120.91663	120.91431	82
## 708	NaN	0.0000000000	0.0000000000	118.13369	118.13137	121
## 709	NaN	0.0000000000	0.0000000000	121.38046	121.37814	98
## 710	2.567460e-06	-0.1185944688	-0.0488202895	110.72083	110.71852	137
## 711	1.612503e-06	-0.0862660912	-0.0362186540	113.50170	113.49938	114
## 712	NaN	0.0000000000	0.0000000000	120.91663	120.91431	121
## 713	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 714	NaN	0.0000000000	0.0000000000	118.59751	118.59520	119
## 715	NaN	0.0000000000	0.0000000000	119.98898	119.98667	151
## 716	NaN	0.0000000000	0.0000000000	119.06134	119.05902	144
## 717	NaN	0.0000000000	0.0000000000	118.69028	118.68796	124
## 718	7.103562e-07	-0.0387687196	-0.0168028102	116.74513	116.74281	100
## 719	NaN	0.0000000000	0.0000000000	119.52516	119.52284	160
## 720	NaN	0.0000000000	0.0000000000	117.29881	117.29649	109
## 721	NaN	0.0000000000	0.0000000000	118.41198	118.40967	138
## 722	NaN	0.0000000000	0.0000000000	123.00384	123.00152	122
## 723	NaN	0.0000000000	0.0000000000	120.45281	120.45049	109
## 724	NaN	0.0000000000	0.0000000000	119.98898	119.98667	139
## 725	NaN	0.0000000000	0.0000000000	117.85540	117.85308	125
## 726	1.514396e-06	-0.0872706121	-0.0367343690	112.11022	112.10791	118
## 727	NaN	0.0000000000	0.0000000000	120.91663	120.91431	114
## 728	NaN	0.0000000000	0.0000000000	123.00384	123.00152	152
## 729	3.959797e-07	-0.0053548133	-0.0023693280	119.98940	119.98708	114
## 730	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 731	NaN	0.0000000000	0.0000000000	118.41198	118.40967	149
## 732	1.648736e-06	-0.0859381679	-0.0360480816	113.96552	113.96320	126
## 733	NaN	0.0000000000	0.0000000000	118.31922	118.31690	114
## 734	NaN	0.0000000000	0.0000000000	120.45281	120.45049	126
## 735	NaN	0.0000000000	0.0000000000	119.06134	119.05902	115
## 736	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 737	NaN	0.0000000000	0.0000000000	121.38046	121.37814	160
## 738	NaN	0.0000000000	0.0000000000	117.94816	117.94584	58
## 739	NaN	0.0000000000	0.0000000000	123.00384	123.00152	108
## 740	NaN	0.0000000000	0.0000000000	119.52516	119.52284	113
## 741	NaN	0.0000000000	0.0000000000	123.00384	123.00152	140

## 742	NaN	0.0000000000	0.0000000000	119.52516	119.52284	118
## 743	NaN	0.0000000000	0.0000000000	123.00384	123.00152	111
## 744	5.333065e-07	-0.0277376772	-0.0121467078	116.18771	116.18539	88
## 745	1.138738e-06	-0.0549179034	-0.0233803930	118.36976	118.36745	133
## 746	NaN	0.0000000000	0.0000000000	120.91663	120.91431	106
## 747	NaN	0.0000000000	0.0000000000	118.13369	118.13137	137
## 748	NaN	0.0000000000	0.0000000000	118.04092	118.03861	129
## 749	NaN	0.0000000000	0.0000000000	120.45281	120.45049	132
## 750	1.379674e-06	-0.0665720266	-0.0281274096	117.44295	117.44063	112
## 751	NaN	0.0000000000	0.0000000000	119.98898	119.98667	122
## 752	NaN	0.0000000000	0.0000000000	123.00384	123.00152	76
## 753	1.138738e-06	-0.0549179034	-0.0233803930	118.36976	118.36745	122
## 754	NaN	0.0000000000	0.0000000000	123.00384	123.00152	159
## 755	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 756	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	104
## 757	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 758	1.036126e-06	-0.0556205365	-0.0237665143	116.74638	116.74406	115
## 759	9.382882e-07	-0.0564543350	-0.0242146809	114.89109	114.88877	159
## 760	NaN	0.0000000000	0.0000000000	123.00384	123.00152	145
## 761	NaN	0.0000000000	0.0000000000	123.00384	123.00152	121
## 762	NaN	0.0000000000	0.0000000000	119.98898	119.98667	112
## 763	NaN	0.0000000000	0.0000000000	119.06134	119.05902	107
## 764	NaN	0.0000000000	0.0000000000	123.00384	123.00152	133
## 765	NaN	0.0000000000	0.0000000000	123.00384	123.00152	136
## 766	NaN	0.0000000000	0.0000000000	117.57710	117.57478	148
## 767	NaN	0.0000000000	0.0000000000	123.00384	123.00152	133
## 768	5.382778e-07	-0.0217411269	-0.0095176085	118.59918	118.59686	108
## 769	NaN	0.0000000000	0.0000000000	123.00384	123.00152	91
## 770	NaN	0.0000000000	0.0000000000	119.98898	119.98667	94
## 771	NaN	0.0000000000	0.0000000000	119.52516	119.52284	123
## 772	NaN	0.0000000000	0.0000000000	123.00384	123.00152	129
## 773	NaN	0.0000000000	0.0000000000	119.52516	119.52284	108
## 774	NaN	0.0000000000	0.0000000000	119.06134	119.05902	144
## 775	NaN	0.0000000000	0.0000000000	119.06134	119.05902	132
## 776	NaN	0.0000000000	0.0000000000	118.22645	118.22414	130
## 777	NaN	0.0000000000	0.0000000000	119.06134	119.05902	105
## 778	NaN	0.0000000000	0.0000000000	119.98898	119.98667	90
## 779	NaN	0.0000000000	0.0000000000	118.13369	118.13137	154
## 780	4.573723e-07	-0.0222425885	-0.0097929207	115.72347	115.72115	103

## 781	1.514396e-06	-0.0872706121	-0.0367343690	112.11022	112.10791	87
## 782	NaN	0.0000000000	0.0000000000	120.91663	120.91431	133
## 783	NaN	0.0000000000	0.0000000000	120.91663	120.91431	117
## 784	NaN	0.0000000000	0.0000000000	123.00384	123.00152	152
## 785	NaN	0.0000000000	0.0000000000	119.52516	119.52284	119
## 786	NaN	0.0000000000	0.0000000000	119.06134	119.05902	108
## 787	NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 788	4.860971e-07	-0.0162246131	-0.0071281910	119.06259	119.06027	89
## 789	NaN	0.0000000000	0.0000000000	123.00384	123.00152	132
## 790	NaN	0.0000000000	0.0000000000	119.98898	119.98667	130
## 791	NaN	0.0000000000	0.0000000000	123.00384	123.00152	124
## 792	NaN	0.0000000000	0.0000000000	123.00384	123.00152	107
## 793	NaN	0.0000000000	0.0000000000	119.06134	119.05902	125
## 794	NaN	0.0000000000	0.0000000000	119.06134	119.05902	117
## 795	NaN	0.0000000000	0.0000000000	118.59751	118.59520	117
## 796	NaN	0.0000000000	0.0000000000	118.78304	118.78073	125
## 797	NaN	0.0000000000	0.0000000000	119.52516	119.52284	106
## 798	1.036126e-06	-0.0556205365	-0.0237665143	116.74638	116.74406	130
## 799	NaN	0.0000000000	0.0000000000	121.38046	121.37814	129
## 800	NaN	0.0000000000	0.0000000000	119.06134	119.05902	144
## 801	NaN	0.0000000000	0.0000000000	117.85540	117.85308	104
## 802	NaN	0.0000000000	0.0000000000	120.91663	120.91431	110
## 803	8.698753e-07	-0.0571907006	-0.0246009921	113.31408	113.31177	113
## 804	NaN	0.0000000000	0.0000000000	123.00384	123.00152	93
## 805	NaN	0.0000000000	0.0000000000	121.38046	121.37814	106
## 806	NaN	0.0000000000	0.0000000000	120.91663	120.91431	113
## 807	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	120
## 808	NaN	0.0000000000	0.0000000000	119.52516	119.52284	116
## 809	NaN	0.0000000000	0.0000000000	123.00384	123.00152	129
## 810	NaN	0.0000000000	0.0000000000	117.76263	117.76031	106
## 811	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 812	NaN	0.0000000000	0.0000000000	118.78304	118.78073	112
## 813	NaN	0.0000000000	0.0000000000	117.76263	117.76031	123
## 814	NaN	0.0000000000	0.0000000000	121.38046	121.37814	129
## 815	NaN	0.0000000000	0.0000000000	117.76263	117.76031	100
## 816	3.663463e-07	-0.0110247986	-0.0048910047	116.46476	116.46244	97
## 817	NaN	0.0000000000	0.0000000000	123.00384	123.00152	127
## 818	NaN	0.0000000000	0.0000000000	119.98898	119.98667	128
## 819	NaN	0.0000000000	0.0000000000	118.13369	118.13137	122

## 820	NaN	0.0000000000	0.0000000000	123.00384	123.00152	93
## 821	9.044858e-07	-0.0567975837	-0.0243958866	114.14897	114.14665	90
## 822	NaN	0.0000000000	0.0000000000	119.06134	119.05902	73
## 823	NaN	0.0000000000	0.0000000000	119.52516	119.52284	133
## 824	NaN	0.0000000000	0.0000000000	118.78304	118.78073	112
## 825	NaN	0.0000000000	0.0000000000	118.41198	118.40967	98
## 826	NaN	0.0000000000	0.0000000000	120.45281	120.45049	136
## 827	NaN	0.0000000000	0.0000000000	118.22645	118.22414	78
## 828	NaN	0.0000000000	0.0000000000	120.91663	120.91431	107
## 829	NaN	0.0000000000	0.0000000000	123.00384	123.00152	147
## 830	2.567460e-06	-0.1185944688	-0.0488202895	110.72083	110.71852	149
## 831	NaN	0.0000000000	0.0000000000	120.45281	120.45049	106
## 832	1.036126e-06	-0.0556205365	-0.0237665143	116.74638	116.74406	97
## 833	NaN	0.0000000000	0.0000000000	123.00384	123.00152	134
## 834	NaN	0.0000000000	0.0000000000	119.06134	119.05902	136
## 835	NaN	0.0000000000	0.0000000000	119.52516	119.52284	136
## 836	NaN	0.0000000000	0.0000000000	119.06134	119.05902	131
## 837	NaN	0.0000000000	0.0000000000	119.52516	119.52284	112
## 838	NaN	0.0000000000	0.0000000000	118.13369	118.13137	105
## 839	NaN	0.0000000000	0.0000000000	118.78304	118.78073	120
## 840	NaN	0.0000000000	0.0000000000	120.91663	120.91431	120
## 841	NaN	0.0000000000	0.0000000000	119.52516	119.52284	115
## 842	NaN	0.0000000000	0.0000000000	119.98898	119.98667	120
## 843	NaN	0.0000000000	0.0000000000	123.00384	123.00152	141
## 844	6.306949e-07	-0.0271171410	-0.0118039272	119.06342	119.06110	119
## 845	NaN	0.0000000000	0.0000000000	119.52516	119.52284	114
## 846	9.609207e-07	-0.0562426809	-0.0241019778	115.35491	115.35259	143
## 847	NaN	0.0000000000	0.0000000000	123.00384	123.00152	113
## 848	NaN	0.0000000000	0.0000000000	119.06134	119.05902	118
## 849	NaN	0.0000000000	0.0000000000	123.00384	123.00152	126
## 850	NaN	0.0000000000	0.0000000000	120.91663	120.91431	120
## 851	NaN	0.0000000000	0.0000000000	119.98898	119.98667	139
## 852	NaN	0.0000000000	0.0000000000	123.00384	123.00152	104
## 853	NaN	0.0000000000	0.0000000000	120.91663	120.91431	141
## 854	NaN	0.0000000000	0.0000000000	119.52516	119.52284	114
## 855	NaN	0.0000000000	0.0000000000	123.00384	123.00152	111
## 856	NaN	0.0000000000	0.0000000000	117.48434	117.48202	94
## 857	NaN	0.0000000000	0.0000000000	119.06134	119.05902	134
## 858	NaN	0.0000000000	0.0000000000	120.45281	120.45049	113

## 859	NaN	0.0000000000	0.0000000000	117.20604	117.20373	116
## 860	NaN	0.0000000000	0.0000000000	117.57710	117.57478	114
## 861	NaN	0.0000000000	0.0000000000	118.69028	118.68796	115
## 862	NaN	0.0000000000	0.0000000000	118.22645	118.22414	122
## 863	2.397954e-06	-0.1205108371	-0.0497570162	108.86554	108.86322	118
## 864	NaN	0.0000000000	0.0000000000	118.78304	118.78073	115
## 865	NaN	0.0000000000	0.0000000000	117.85540	117.85308	104
## 866	NaN	0.0000000000	0.0000000000	117.85540	117.85308	134
## 867	NaN	0.0000000000	0.0000000000	118.22645	118.22414	143
## 868	NaN	0.0000000000	0.0000000000	121.38046	121.37814	143
## 869	NaN	0.0000000000	0.0000000000	117.94816	117.94584	106
## 870	NaN	0.0000000000	0.0000000000	120.45281	120.45049	127
## 871	NaN	0.0000000000	0.0000000000	119.52516	119.52284	122
## 872	NaN	0.0000000000	0.0000000000	118.78304	118.78073	115
## 873	NaN	0.0000000000	0.0000000000	118.41198	118.40967	139
## 874	8.925541e-07	-0.0569277921	-0.0244641110	113.87067	113.86836	114
## 875	NaN	0.0000000000	0.0000000000	119.98898	119.98667	108
## 876	NaN	0.0000000000	0.0000000000	118.04092	118.03861	127
## 877	NaN	0.0000000000	0.0000000000	117.94816	117.94584	111
## 878	NaN	0.0000000000	0.0000000000	118.50475	118.50243	91
## 879	NaN	0.0000000000	0.0000000000	117.85540	117.85308	96
## 880	8.772613e-07	-0.0571026920	-0.0245553018	113.49961	113.49730	103
## 881	NaN	0.0000000000	0.0000000000	117.85540	117.85308	78
## 882	NaN	0.0000000000	0.0000000000	119.06134	119.05902	98
## 883	6.446036e-06	-0.1896389843	-0.0747646625	105.15911	105.15679	94
## 884	9.382882e-07	-0.0564543350	-0.0242146809	114.89109	114.88877	135
## 885	2.390511e-06	-0.1206088631	-0.0498041998	108.77277	108.77046	124
## 886	NaN	0.0000000000	0.0000000000	117.48434	117.48202	108
## 887	9.044858e-07	-0.0567975837	-0.0243958866	114.14897	114.14665	128
## 888	NaN	0.0000000000	0.0000000000	118.04092	118.03861	139
## 889	NaN	0.0000000000	0.0000000000	119.52516	119.52284	128
## 890	NaN	0.0000000000	0.0000000000	120.91663	120.91431	102
## 891	NaN	0.0000000000	0.0000000000	117.29881	117.29649	136
## 892	NaN	0.0000000000	0.0000000000	123.00384	123.00152	146
## 893	NaN	0.0000000000	0.0000000000	118.50475	118.50243	136
## 894	NaN	0.0000000000	0.0000000000	120.91663	120.91431	89
## 895	6.185505e-06	-0.1929317381	-0.0762204913	103.30382	103.30150	102
## 896	6.196480e-06	-0.1927634863	-0.0761472667	103.39658	103.39426	138
## 897	NaN	0.0000000000	0.0000000000	117.76263	117.76031	128

## 898	NaN	0.0000000000	0.0000000000	119.52516	119.52284	124
## 899	NaN	0.0000000000	0.0000000000	118.13369	118.13137	122
## 900	4.530479e-07	-0.0222760604	-0.0098108910	115.53794	115.53562	101
## 901	NaN	0.0000000000	0.0000000000	120.45281	120.45049	118
## 902	NaN	0.0000000000	0.0000000000	119.98898	119.98667	70
## 903	NaN	0.0000000000	0.0000000000	119.06134	119.05902	136
## 904	NaN	0.0000000000	0.0000000000	120.45281	120.45049	152
## 905	NaN	0.0000000000	0.0000000000	118.78304	118.78073	98
## 906	8.662467e-07	-0.0572348459	-0.0246238605	113.22132	113.21900	68
## 907	4.261803e-07	-0.0165107225	-0.0072870771	116.83623	116.83391	101
## 908	NaN	0.0000000000	0.0000000000	117.20604	117.20373	94
## 909	NaN	0.0000000000	0.0000000000	117.02051	117.01820	117
## 910	NaN	0.0000000000	0.0000000000	117.94816	117.94584	96
## 911	NaN	0.0000000000	0.0000000000	121.38046	121.37814	122
## 912	NaN	0.0000000000	0.0000000000	120.91663	120.91431	132
## 913	2.334426e-06	-0.1214009301	-0.0501827874	108.03066	108.02834	104
## 914	NaN	0.0000000000	0.0000000000	119.52516	119.52284	130
## 915	NaN	0.0000000000	0.0000000000	118.78304	118.78073	84
## 916	NaN	0.0000000000	0.0000000000	120.45281	120.45049	159
## 917	4.134976e-07	-0.0165844805	-0.0073272306	116.27964	116.27733	115
## 918	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	126
## 919	6.753390e-07	-0.0390573721	-0.0169592613	115.81748	115.81517	132
## 920	NaN	0.0000000000	0.0000000000	121.38046	121.37814	101
## 921	2.521344e-06	-0.1190658382	-0.0490531922	110.25701	110.25469	87
## 922	NaN	0.0000000000	0.0000000000	117.39157	117.38925	147
## 923	NaN	0.0000000000	0.0000000000	118.69028	118.68796	108
## 924	NaN	0.0000000000	0.0000000000	119.98898	119.98667	103
## 925	NaN	0.0000000000	0.0000000000	120.45281	120.45049	128
## 926	3.700242e-07	-0.0110084059	-0.0048820837	116.65029	116.64797	97
## 927	NaN	0.0000000000	0.0000000000	120.91663	120.91431	113
## 928	NaN	0.0000000000	0.0000000000	121.38046	121.37814	128
## 929	8.848204e-07	-0.0570150568	-0.0245096746	113.68514	113.68283	74
## 930	NaN	0.0000000000	0.0000000000	117.39157	117.38925	95
## 931	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 932	2.397954e-06	-0.1205108371	-0.0497570162	108.86554	108.86322	129
## 933	NaN	0.0000000000	0.0000000000	120.45281	120.45049	117
## 934	NaN	0.0000000000	0.0000000000	119.98898	119.98667	109
## 935	NaN	0.0000000000	0.0000000000	117.57710	117.57478	109
## 936	5.203947e-07	-0.0278415031	-0.0122027394	115.72389	115.72157	129

## 937	NaN	0.0000000000	0.0000000000	118.31922	118.31690	144
## 938	NaN	0.0000000000	0.0000000000	119.52516	119.52284	131
## 939	NaN	0.0000000000	0.0000000000	119.98898	119.98667	104
## 940	NaN	0.0000000000	0.0000000000	118.41198	118.40967	120
## 941	9.168201e-07	-0.0566681933	-0.0243278095	114.42726	114.42494	99
## 942	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	103
## 943	NaN	0.0000000000	0.0000000000	123.00384	123.00152	123
## 944	NaN	0.0000000000	0.0000000000	121.38046	121.37814	134
## 945	NaN	0.0000000000	0.0000000000	118.59751	118.59520	147
## 946	2.521344e-06	-0.1190658382	-0.0490531922	110.25701	110.25469	83
## 947	NaN	0.0000000000	0.0000000000	119.98898	119.98667	91
## 948	NaN	0.0000000000	0.0000000000	123.00384	123.00152	124
## 949	NaN	0.0000000000	0.0000000000	123.00384	123.00152	141
## 950	NaN	0.0000000000	0.0000000000	123.00384	123.00152	56
## 951	NaN	0.0000000000	0.0000000000	119.98898	119.98667	139
## 952	NaN	0.0000000000	0.0000000000	118.69028	118.68796	133
## 953	NaN	0.0000000000	0.0000000000	120.91663	120.91431	144
## 954	NaN	0.0000000000	0.0000000000	117.66987	117.66755	130
## 955	5.958388e-07	-0.0273130915	-0.0119135998	118.13577	118.13345	102
## 956	NaN	0.0000000000	0.0000000000	120.45281	120.45049	109
## 957	NaN	0.0000000000	0.0000000000	117.11328	117.11096	104
## 958	6.591855e-07	-0.0392039473	-0.0170379225	115.35366	115.35134	134
## 959	NaN	0.0000000000	0.0000000000	123.00384	123.00152	91
## 960	NaN	0.0000000000	0.0000000000	117.29881	117.29649	159
## 961	NaN	0.0000000000	0.0000000000	117.39157	117.38925	93
## 962	1.514396e-06	-0.0872706121	-0.0367343690	112.11022	112.10791	131
## 963	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 964	NaN	0.0000000000	0.0000000000	117.29881	117.29649	126
## 965	NaN	0.0000000000	0.0000000000	118.59751	118.59520	107
## 966	NaN	0.0000000000	0.0000000000	118.50475	118.50243	76
## 967	NaN	0.0000000000	0.0000000000	117.94816	117.94584	122
## 968	NaN	0.0000000000	0.0000000000	119.06134	119.05902	104
## 969	4.509238e-07	-0.0222928495	-0.0098198850	115.44518	115.44286	92
## 970	8.626608e-07	-0.0572790856	-0.0246467445	113.12856	113.12624	101
## 971	NaN	0.0000000000	0.0000000000	117.11328	117.11096	109
## 972	NaN	0.0000000000	0.0000000000	123.00384	123.00152	113
## 973	NaN	0.0000000000	0.0000000000	120.91663	120.91431	136
## 974	NaN	0.0000000000	0.0000000000	119.06134	119.05902	147
## 975	1.485102e-06	-0.0876125920	-0.0369075553	111.64640	111.64408	104

## 976	1.490828e-06	-0.0875439034	-0.0368728685	111.73917	111.73685	117
## 977	1.583875e-05	-0.2723913366	-0.1022760658	98.94803	98.94572	89
## 978	NaN	0.0000000000	0.0000000000	118.22645	118.22414	101
## 979	NaN	0.0000000000	0.0000000000	118.59751	118.59520	121
## 980	9.044858e-07	-0.0567975837	-0.0243958866	114.14897	114.14665	120
## 981	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 982	NaN	0.0000000000	0.0000000000	118.04092	118.03861	112
## 983	NaN	0.0000000000	0.0000000000	123.00384	123.00152	125
## 984	NaN	0.0000000000	0.0000000000	117.20604	117.20373	128
## 985	NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 986	2.383164e-06	-0.1207071054	-0.0498514150	108.68001	108.67769	104
## 987	NaN	0.0000000000	0.0000000000	120.91663	120.91431	123
## 988	NaN	0.0000000000	0.0000000000	118.78304	118.78073	123
## 989	NaN	0.0000000000	0.0000000000	117.48434	117.48202	164
## 990	NaN	0.0000000000	0.0000000000	117.02051	117.01820	113
## 991	NaN	0.0000000000	0.0000000000	123.00384	123.00152	102
## 992	NaN	0.0000000000	0.0000000000	121.38046	121.37814	113
## 993	NaN	0.0000000000	0.0000000000	118.31922	118.31690	99
## 994	NaN	0.0000000000	0.0000000000	119.52516	119.52284	127
## 995	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	132
## 996	2.452777e-06	-0.1198306409	-0.0494276331	109.51489	109.51258	121
## 997	NaN	0.0000000000	0.0000000000	118.41198	118.40967	91
## 998	8.354879e-07	-0.0576364472	-0.0248303612	112.38644	112.38412	109
## 999	NaN	0.0000000000	0.0000000000	121.38046	121.37814	112
## 1000	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 1001	NaN	0.0000000000	0.0000000000	118.41198	118.40967	149
## 1002	8.964870e-07	-0.0568842978	-0.0244413533	113.96344	113.96112	103
## 1003	NaN	0.0000000000	0.0000000000	121.38046	121.37814	120
## 1004	NaN	0.0000000000	0.0000000000	118.41198	118.40967	144
## 1005	NaN	0.0000000000	0.0000000000	118.69028	118.68796	116
## 1006	8.420312e-07	-0.0575465276	-0.0247843676	112.57197	112.56965	112
## 1007	NaN	0.0000000000	0.0000000000	118.69028	118.68796	128
## 1008	NaN	0.0000000000	0.0000000000	119.52516	119.52284	137
## 1009	NaN	0.0000000000	0.0000000000	119.98898	119.98667	127
## 1010	1.496620e-06	-0.0874753617	-0.0368382063	111.83193	111.82961	101
## 1011	1.578061e-06	-0.0865974293	-0.0363899026	113.03787	113.03555	92
## 1012	NaN	0.0000000000	0.0000000000	119.06134	119.05902	101
## 1013	NaN	0.0000000000	0.0000000000	118.78304	118.78073	121
## 1014	NaN	0.0000000000	0.0000000000	117.57710	117.57478	116

## 1015	NaN	0.0000000000	0.0000000000	119.52516	119.52284	127
## 1016	NaN	0.0000000000	0.0000000000	117.94816	117.94584	133
## 1017	NaN	0.0000000000	0.0000000000	121.38046	121.37814	128
## 1018	NaN	0.0000000000	0.0000000000	118.78304	118.78073	123
## 1019	NaN	0.0000000000	0.0000000000	119.06134	119.05902	122
## 1020	2.420865e-06	-0.1202180484	-0.0496156571	109.14383	109.14152	113
## 1021	NaN	0.0000000000	0.0000000000	117.76263	117.76031	128
## 1022	5.414055e-07	-0.0276758979	-0.0121131839	116.46601	116.46369	139
## 1023	NaN	0.0000000000	0.0000000000	117.11328	117.11096	141
## 1024	5.859378e-07	-0.0335063022	-0.0146237783	115.53877	115.53646	121
## 1025	NaN	0.0000000000	0.0000000000	119.52516	119.52284	123
## 1026	2.347873e-06	-0.1212015915	-0.0500879571	108.21619	108.21387	151
## 1027	NaN	0.0000000000	0.0000000000	117.48434	117.48202	119
## 1028	NaN	0.0000000000	0.0000000000	118.31922	118.31690	105
## 1029	NaN	0.0000000000	0.0000000000	119.98898	119.98667	133
## 1030	NaN	0.0000000000	0.0000000000	119.06134	119.05902	123
## 1031	NaN	0.0000000000	0.0000000000	119.06134	119.05902	111
## 1032	NaN	0.0000000000	0.0000000000	119.52516	119.52284	123
## 1033	9.382882e-07	-0.0564543350	-0.0242146809	114.89109	114.88877	123
## 1034	NaN	0.0000000000	0.0000000000	118.22645	118.22414	130
## 1035	NaN	0.0000000000	0.0000000000	119.06134	119.05902	154
## 1036	NaN	0.0000000000	0.0000000000	119.06134	119.05902	120
## 1037	NaN	0.0000000000	0.0000000000	123.00384	123.00152	90
## 1038	NaN	0.0000000000	0.0000000000	118.78304	118.78073	114
## 1039	NaN	0.0000000000	0.0000000000	120.45281	120.45049	123
## 1040	NaN	0.0000000000	0.0000000000	119.98898	119.98667	123
## 1041	NaN	0.0000000000	0.0000000000	118.04092	118.03861	136
## 1042	NaN	0.0000000000	0.0000000000	119.52516	119.52284	104
## 1043	2.436625e-06	-0.1200239220	-0.0495215794	109.32936	109.32705	128
## 1044	NaN	0.0000000000	0.0000000000	120.45281	120.45049	128
## 1045	NaN	0.0000000000	0.0000000000	117.94816	117.94584	160
## 1046	NaN	0.0000000000	0.0000000000	119.98898	119.98667	111
## 1047	NaN	0.0000000000	0.0000000000	120.45281	120.45049	141
## 1048	NaN	0.0000000000	0.0000000000	119.98898	119.98667	122
## 1049	NaN	0.0000000000	0.0000000000	120.45281	120.45049	98
## 1050	8.420312e-07	-0.0575465276	-0.0247843676	112.57197	112.56965	96
## 1051	NaN	0.0000000000	0.0000000000	118.41198	118.40967	127
## 1052	NaN	0.0000000000	0.0000000000	120.91663	120.91431	119
## 1053	NaN	0.0000000000	0.0000000000	119.06134	119.05902	43

## 1054	NaN	0.0000000000	0.0000000000	119.06134	119.05902	100
## 1055	NaN	0.0000000000	0.0000000000	117.20604	117.20373	139
## 1056	NaN	0.0000000000	0.0000000000	119.98898	119.98667	128
## 1057	NaN	0.0000000000	0.0000000000	119.98898	119.98667	115
## 1058	NaN	0.0000000000	0.0000000000	118.69028	118.68796	121
## 1059	NaN	0.0000000000	0.0000000000	119.52516	119.52284	134
## 1060	NaN	0.0000000000	0.0000000000	117.20604	117.20373	120
## 1061	2.354740e-06	-0.1211022548	-0.0500405873	108.30895	108.30663	104
## 1062	NaN	0.0000000000	0.0000000000	120.45281	120.45049	170
## 1063	NaN	0.0000000000	0.0000000000	123.00384	123.00152	132
## 1064	NaN	0.0000000000	0.0000000000	121.38046	121.37814	126
## 1065	NaN	0.0000000000	0.0000000000	120.91663	120.91431	142
## 1066	NaN	0.0000000000	0.0000000000	119.52516	119.52284	103
## 1067	NaN	0.0000000000	0.0000000000	119.98898	119.98667	112
## 1068	2.667404e-06	-0.1176665928	-0.0483571760	111.64848	111.64616	117
## 1069	NaN	0.0000000000	0.0000000000	118.59751	118.59520	131
## 1070	NaN	0.0000000000	0.0000000000	120.91663	120.91431	115
## 1071	9.044858e-07	-0.0567975837	-0.0243958866	114.14897	114.14665	118
## 1072	NaN	0.0000000000	0.0000000000	119.98898	119.98667	106
## 1073	NaN	0.0000000000	0.0000000000	120.91663	120.91431	126
## 1074	2.413131e-06	-0.1203154306	-0.0496627447	109.05107	109.04875	104
## 1075	NaN	0.0000000000	0.0000000000	118.41198	118.40967	143
## 1076	NaN	0.0000000000	0.0000000000	119.98898	119.98667	156
## 1077	NaN	0.0000000000	0.0000000000	120.45281	120.45049	137
## 1078	NaN	0.0000000000	0.0000000000	117.57710	117.57478	126
## 1079	NaN	0.0000000000	0.0000000000	119.98898	119.98667	134
## 1080	NaN	0.0000000000	0.0000000000	120.91663	120.91431	89
## 1081	2.521344e-06	-0.1190658382	-0.0490531922	110.25701	110.25469	64
## 1082	NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 1083	NaN	0.0000000000	0.0000000000	123.00384	123.00152	121
## 1084	NaN	0.0000000000	0.0000000000	119.52516	119.52284	109
## 1085	NaN	0.0000000000	0.0000000000	119.98898	119.98667	38
## 1086	NaN	0.0000000000	0.0000000000	119.98898	119.98667	128
## 1087	NaN	0.0000000000	0.0000000000	120.45281	120.45049	132
## 1088	9.004642e-07	-0.0568408952	-0.0244186118	114.05620	114.05389	143
## 1089	NaN	0.0000000000	0.0000000000	119.06134	119.05902	100
## 1090	6.777055e-07	-0.0328219356	-0.0142499282	118.13619	118.13387	107
## 1091	NaN	0.0000000000	0.0000000000	119.52516	119.52284	103
## 1092	NaN	0.0000000000	0.0000000000	120.45281	120.45049	157

## 1093	NaN	0.0000000000	0.0000000000	118.04092	118.03861	126
## 1094	NaN	0.0000000000	0.0000000000	118.69028	118.68796	125
## 1095	NaN	0.0000000000	0.0000000000	117.29881	117.29649	102
## 1096	NaN	0.0000000000	0.0000000000	118.69028	118.68796	98
## 1097	NaN	0.0000000000	0.0000000000	118.22645	118.22414	96
## 1098	NaN	0.0000000000	0.0000000000	119.06134	119.05902	134
## 1099	NaN	0.0000000000	0.0000000000	123.00384	123.00152	94
## 1100	NaN	0.0000000000	0.0000000000	119.06134	119.05902	84
## 1101	NaN	0.0000000000	0.0000000000	118.50475	118.50243	155
## 1102	NaN	0.0000000000	0.0000000000	119.52516	119.52284	117
## 1103	NaN	0.0000000000	0.0000000000	120.91663	120.91431	169
## 1104	3.645395e-07	-0.0110330208	-0.0048954697	116.37199	116.36967	105
## 1105	NaN	0.0000000000	0.0000000000	119.06134	119.05902	118
## 1106	NaN	0.0000000000	0.0000000000	118.78304	118.78073	113
## 1107	NaN	0.0000000000	0.0000000000	118.13369	118.13137	114
## 1108	2.375914e-06	-0.1208055649	-0.0498986616	108.58724	108.58493	116
## 1109	8.487402e-07	-0.0574569961	-0.0247384330	112.75750	112.75518	79
## 1110	NaN	0.0000000000	0.0000000000	119.52516	119.52284	109
## 1111	NaN	0.0000000000	0.0000000000	121.38046	121.37814	146
## 1112	NaN	0.0000000000	0.0000000000	119.06134	119.05902	116
## 1113	NaN	0.0000000000	0.0000000000	117.85540	117.85308	93
## 1114	NaN	0.0000000000	0.0000000000	123.00384	123.00152	108
## 1115	NaN	0.0000000000	0.0000000000	117.66987	117.66755	115
## 1116	NaN	0.0000000000	0.0000000000	123.00384	123.00152	115
## 1117	NaN	0.0000000000	0.0000000000	117.39157	117.38925	119
## 1118	NaN	0.0000000000	0.0000000000	119.52516	119.52284	128
## 1119	NaN	0.0000000000	0.0000000000	118.78304	118.78073	119
## 1120	NaN	0.0000000000	0.0000000000	117.57710	117.57478	102
## 1121	NaN	0.0000000000	0.0000000000	118.50475	118.50243	130
## 1122	NaN	0.0000000000	0.0000000000	123.00384	123.00152	140
## 1123	NaN	0.0000000000	0.0000000000	119.06134	119.05902	107
## 1124	NaN	0.0000000000	0.0000000000	117.20604	117.20373	134
## 1125	NaN	0.0000000000	0.0000000000	119.06134	119.05902	126
## 1126	NaN	0.0000000000	0.0000000000	119.98898	119.98667	143
## 1127	NaN	0.0000000000	0.0000000000	117.85540	117.85308	122
## 1128	NaN	0.0000000000	0.0000000000	118.50475	118.50243	112
## 1129	NaN	0.0000000000	0.0000000000	119.98898	119.98667	151
## 1130	NaN	0.0000000000	0.0000000000	118.59751	118.59520	127
## 1131	NaN	0.0000000000	0.0000000000	117.57710	117.57478	158

## 1132	NaN	0.0000000000	0.0000000000	123.00384	123.00152	90
## 1133	NaN	0.0000000000	0.0000000000	120.45281	120.45049	114
## 1134	4.830181e-07	-0.0220609800	-0.0096945195	116.74388	116.74157	143
## 1135	NaN	0.0000000000	0.0000000000	118.78304	118.78073	109
## 1136	NaN	0.0000000000	0.0000000000	119.98898	119.98667	126
## 1137	6.777055e-07	-0.0328219356	-0.0142499282	118.13619	118.13387	153
## 1138	NaN	0.0000000000	0.0000000000	119.98898	119.98667	123
## 1139	NaN	0.0000000000	0.0000000000	118.69028	118.68796	72
## 1140	9.168201e-07	-0.0566681933	-0.0243278095	114.42726	114.42494	121
## 1141	4.468718e-07	-0.0164017900	-0.0072271631	117.67111	117.66880	137
## 1142	NaN	0.0000000000	0.0000000000	119.98898	119.98667	64
## 1143	NaN	0.0000000000	0.0000000000	118.69028	118.68796	119
## 1144	NaN	0.0000000000	0.0000000000	118.13369	118.13137	137
## 1145	NaN	0.0000000000	0.0000000000	117.85540	117.85308	98
## 1146	NaN	0.0000000000	0.0000000000	119.06134	119.05902	126
## 1147	NaN	0.0000000000	0.0000000000	119.52516	119.52284	142
## 1148	NaN	0.0000000000	0.0000000000	117.02051	117.01820	122
## 1149	NaN	0.0000000000	0.0000000000	119.06134	119.05902	112
## 1150	NaN	0.0000000000	0.0000000000	117.57710	117.57478	142
## 1151	NaN	0.0000000000	0.0000000000	123.00384	123.00152	108
## 1152	NaN	0.0000000000	0.0000000000	118.78304	118.78073	128
## 1153	NaN	0.0000000000	0.0000000000	119.52516	119.52284	124
## 1154	NaN	0.0000000000	0.0000000000	118.13369	118.13137	104
## 1155	NaN	0.0000000000	0.0000000000	120.91663	120.91431	118
## 1156	NaN	0.0000000000	0.0000000000	118.22645	118.22414	96
## 1157	NaN	0.0000000000	0.0000000000	123.00384	123.00152	106
## 1158	NaN	0.0000000000	0.0000000000	117.20604	117.20373	114
## 1159	NaN	0.0000000000	0.0000000000	123.00384	123.00152	142
## 1160	NaN	0.0000000000	0.0000000000	117.85540	117.85308	74
## 1161	NaN	0.0000000000	0.0000000000	120.45281	120.45049	146
## 1162	NaN	0.0000000000	0.0000000000	118.78304	118.78073	128
## 1163	NaN	0.0000000000	0.0000000000	118.59751	118.59520	115
## 1164	NaN	0.0000000000	0.0000000000	117.85540	117.85308	139
## 1165	NaN	0.0000000000	0.0000000000	123.00384	123.00152	143
## 1166	NaN	0.0000000000	0.0000000000	123.00384	123.00152	125
## 1167	5.280547e-07	-0.0277790777	-0.0121690969	116.00218	115.99986	120
## 1168	5.796809e-07	-0.0274125448	-0.0119687651	117.67195	117.66963	120
## 1169	NaN	0.0000000000	0.0000000000	118.59751	118.59520	135
## 1170	NaN	0.0000000000	0.0000000000	117.20604	117.20373	91

## 1171	NaN	0.0000000000	0.0000000000	118.69028	118.68796	117
## 1172	NaN	0.0000000000	0.0000000000	119.06134	119.05902	119
## 1173	2.931632e-06	-0.1156480000	-0.0473290038	113.73569	113.73337	128
## 1174	NaN	0.0000000000	0.0000000000	123.00384	123.00152	135
## 1175	6.094476e-07	-0.0333067469	-0.0145161618	116.28089	116.27857	91
## 1176	NaN	0.0000000000	0.0000000000	117.02051	117.01820	108
## 1177	NaN	0.0000000000	0.0000000000	119.06134	119.05902	110
## 1178	NaN	0.0000000000	0.0000000000	121.38046	121.37814	136
## 1179	NaN	0.0000000000	0.0000000000	123.00384	123.00152	126
## 1180	NaN	0.0000000000	0.0000000000	123.00384	123.00152	115
## 1181	NaN	0.0000000000	0.0000000000	119.98898	119.98667	136
## 1182	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 1183	NaN	0.0000000000	0.0000000000	117.02051	117.01820	117
## 1184	NaN	0.0000000000	0.0000000000	123.00384	123.00152	152
## 1185	NaN	0.0000000000	0.0000000000	120.91663	120.91431	124
## 1186	NaN	0.0000000000	0.0000000000	118.22645	118.22414	115
## 1187	NaN	0.0000000000	0.0000000000	119.06134	119.05902	134
## 1188	NaN	0.0000000000	0.0000000000	123.00384	123.00152	146
## 1189	NaN	0.0000000000	0.0000000000	118.50475	118.50243	125
## 1190	2.375914e-06	-0.1208055649	-0.0498986616	108.58724	108.58493	89
## 1191	1.496620e-06	-0.0874753617	-0.0368382063	111.83193	111.82961	128
## 1192	NaN	0.0000000000	0.0000000000	118.04092	118.03861	133
## 1193	NaN	0.0000000000	0.0000000000	117.76263	117.76031	112
## 1194	NaN	0.0000000000	0.0000000000	120.91663	120.91431	143
## 1195	NaN	0.0000000000	0.0000000000	119.52516	119.52284	157
## 1196	NaN	0.0000000000	0.0000000000	118.31922	118.31690	99
## 1197	6.895813e-07	-0.0454850589	-0.0197352037	113.68431	113.68199	96
## 1198	NaN	0.0000000000	0.0000000000	118.41198	118.40967	128
## 1199	NaN	0.0000000000	0.0000000000	119.52516	119.52284	122
## 1200	NaN	0.0000000000	0.0000000000	123.00384	123.00152	119
## 1201	NaN	0.0000000000	0.0000000000	118.50475	118.50243	160
## 1202	NaN	0.0000000000	0.0000000000	120.45281	120.45049	108
## 1203	NaN	0.0000000000	0.0000000000	123.00384	123.00152	114
## 1204	NaN	0.0000000000	0.0000000000	120.45281	120.45049	115
## 1205	NaN	0.0000000000	0.0000000000	117.66987	117.66755	131
## 1206	NaN	0.0000000000	0.0000000000	119.06134	119.05902	118
## 1207	NaN	0.0000000000	0.0000000000	121.38046	121.37814	149
## 1208	NaN	0.0000000000	0.0000000000	119.98898	119.98667	114
## 1209	5.035150e-07	-0.0279887010	-0.0122815068	115.07453	115.07222	133

## 1210	NaN	0.0000000000	0.0000000000	119.98898	119.98667	112
## 1211	NaN	0.0000000000	0.0000000000	118.41198	118.40967	101
## 1212	8.387389e-07	-0.0575914387	-0.0248073570	112.47920	112.47689	86
## 1213	NaN	0.0000000000	0.0000000000	123.00384	123.00152	125
## 1214	NaN	0.0000000000	0.0000000000	120.45281	120.45049	135
## 1215	NaN	0.0000000000	0.0000000000	118.13369	118.13137	105
## 1216	NaN	0.0000000000	0.0000000000	118.50475	118.50243	107
## 1217	NaN	0.0000000000	0.0000000000	121.38046	121.37814	97
## 1218	NaN	0.0000000000	0.0000000000	117.02051	117.01820	158
## 1219	NaN	0.0000000000	0.0000000000	118.69028	118.68796	123
## 1220	NaN	0.0000000000	0.0000000000	119.98898	119.98667	110
## 1221	NaN	0.0000000000	0.0000000000	118.22645	118.22414	74
## 1222	NaN	0.0000000000	0.0000000000	117.20604	117.20373	93
## 1223	NaN	0.0000000000	0.0000000000	121.38046	121.37814	159
## 1224	NaN	0.0000000000	0.0000000000	119.98898	119.98667	114
## 1225	NaN	0.0000000000	0.0000000000	119.06134	119.05902	142
## 1226	NaN	0.0000000000	0.0000000000	123.00384	123.00152	139
## 1227	NaN	0.0000000000	0.0000000000	117.85540	117.85308	132
## 1228	NaN	0.0000000000	0.0000000000	123.00384	123.00152	151
## 1229	1.436508e-06	-0.0882374912	-0.0372208230	110.81152	110.80920	111
## 1230	NaN	0.0000000000	0.0000000000	117.85540	117.85308	115
## 1231	NaN	0.0000000000	0.0000000000	119.06134	119.05902	120
## 1232	NaN	0.0000000000	0.0000000000	119.06134	119.05902	155
## 1233	1.379674e-06	-0.0665720266	-0.0281274096	117.44295	117.44063	131
## 1234	NaN	0.0000000000	0.0000000000	119.06134	119.05902	124
## 1235	9.168201e-07	-0.0566681933	-0.0243278095	114.42726	114.42494	127
## 1236	NaN	0.0000000000	0.0000000000	117.94816	117.94584	125
## 1237	NaN	0.0000000000	0.0000000000	117.20604	117.20373	106
## 1238	NaN	0.0000000000	0.0000000000	117.85540	117.85308	144
## 1239	NaN	0.0000000000	0.0000000000	117.39157	117.38925	109
## 1240	2.720211e-05	-0.3267850114	-0.1186885105	95.70377	95.70145	121
## 1241	NaN	0.0000000000	0.0000000000	119.98898	119.98667	111
## 1242	NaN	0.0000000000	0.0000000000	121.38046	121.37814	145
## 1243	NaN	0.0000000000	0.0000000000	117.48434	117.48202	131
## 1244	NaN	0.0000000000	0.0000000000	118.59751	118.59520	129
## 1245	2.383164e-06	-0.1207071054	-0.0498514150	108.68001	108.67769	92
## 1246	NaN	0.0000000000	0.0000000000	118.13369	118.13137	111
## 1247	NaN	0.0000000000	0.0000000000	117.85540	117.85308	91
## 1248	5.497741e-07	-0.0276145004	-0.0120797324	116.74430	116.74198	124

## 1249	NaN	0.0000000000	0.0000000000	119.98898	119.98667	130
## 1250	NaN	0.0000000000	0.0000000000	119.06134	119.05902	137
## 1251	NaN	0.0000000000	0.0000000000	117.76263	117.76031	128
## 1252	NaN	0.0000000000	0.0000000000	117.11328	117.11096	133
## 1253	NaN	0.0000000000	0.0000000000	119.98898	119.98667	68
## 1254	NaN	0.0000000000	0.0000000000	118.41198	118.40967	97
## 1255	NaN	0.0000000000	0.0000000000	120.45281	120.45049	124
## 1256	NaN	0.0000000000	0.0000000000	121.38046	121.37814	129
## 1257	NaN	0.0000000000	0.0000000000	123.00384	123.00152	117
## 1258	NaN	0.0000000000	0.0000000000	119.52516	119.52284	93
## 1259	NaN	0.0000000000	0.0000000000	119.52516	119.52284	103
## 1260	NaN	0.0000000000	0.0000000000	123.00384	123.00152	134
## 1261	NaN	0.0000000000	0.0000000000	119.98898	119.98667	101
## 1262	NaN	0.0000000000	0.0000000000	117.66987	117.66755	137
## 1263	NaN	0.0000000000	0.0000000000	117.39157	117.38925	153
## 1264	1.614497e-05	-0.2682002930	-0.1005894621	100.52504	100.52272	96
## 1265	NaN	0.0000000000	0.0000000000	117.76263	117.76031	103
## 1266	NaN	0.0000000000	0.0000000000	117.57710	117.57478	112
## 1267	NaN	0.0000000000	0.0000000000	119.52516	119.52284	108
## 1268	NaN	0.0000000000	0.0000000000	118.69028	118.68796	97
## 1269	NaN	0.0000000000	0.0000000000	119.52516	119.52284	99
## 1270	NaN	0.0000000000	0.0000000000	119.52516	119.52284	130
## 1271	NaN	0.0000000000	0.0000000000	119.06134	119.05902	148
## 1272	NaN	0.0000000000	0.0000000000	119.52516	119.52284	119
## 1273	NaN	0.0000000000	0.0000000000	118.78304	118.78073	89
## 1274	NaN	0.0000000000	0.0000000000	119.52516	119.52284	128
## 1275	NaN	0.0000000000	0.0000000000	120.45281	120.45049	130
## 1276	2.354740e-06	-0.1211022548	-0.0500405873	108.30895	108.30663	120
## 1277	NaN	0.0000000000	0.0000000000	119.98898	119.98667	146
## 1278	NaN	0.0000000000	0.0000000000	118.41198	118.40967	102
## 1279	NaN	0.0000000000	0.0000000000	119.52516	119.52284	132
## 1280	1.229930e-06	-0.0676844297	-0.0287284652	115.35574	115.35342	90
## 1281	NaN	0.0000000000	0.0000000000	119.98898	119.98667	112
## 1282	NaN	0.0000000000	0.0000000000	121.38046	121.37814	119
## 1283	NaN	0.0000000000	0.0000000000	118.50475	118.50243	145
## 1284	NaN	0.0000000000	0.0000000000	120.91663	120.91431	125
## 1285	NaN	0.0000000000	0.0000000000	117.48434	117.48202	127
## 1286	NaN	0.0000000000	0.0000000000	119.06134	119.05902	134
## 1287	NaN	0.0000000000	0.0000000000	123.00384	123.00152	139

## 1288	9.382882e-07	-0.0564543350	-0.0242146809	114.89109	114.88877	106
## 1289	NaN	0.0000000000	0.0000000000	120.91663	120.91431	69
## 1290	NaN	0.0000000000	0.0000000000	119.98898	119.98667	114
## 1291	2.341102e-06	-0.1213011496	-0.0501353573	108.12342	108.12110	111
## 1292	5.229192e-07	-0.0278206511	-0.0121915174	115.81665	115.81433	123
## 1293	NaN	0.0000000000	0.0000000000	123.00384	123.00152	172
## 1294	NaN	0.0000000000	0.0000000000	123.00384	123.00152	128
## 1295	NaN	0.0000000000	0.0000000000	119.06134	119.05902	138
## 1296	NaN	0.0000000000	0.0000000000	119.98898	119.98667	77
## 1297	NaN	0.0000000000	0.0000000000	123.00384	123.00152	137
## 1298	NaN	0.0000000000	0.0000000000	123.00384	123.00152	93
## 1299	NaN	0.0000000000	0.0000000000	117.76263	117.76031	160
## 1300	NaN	0.0000000000	0.0000000000	121.38046	121.37814	104
## 1301	NaN	0.0000000000	0.0000000000	117.29881	117.29649	115
## 1302	NaN	0.0000000000	0.0000000000	119.06134	119.05902	176
## 1303	NaN	0.0000000000	0.0000000000	123.00384	123.00152	87
## 1304	3.903640e-05	-0.3550569854	-0.1258818140	96.35478	96.35247	90
## 1305	NaN	0.0000000000	0.0000000000	123.00384	123.00152	116
## 1306	NaN	0.0000000000	0.0000000000	117.94816	117.94584	134
## 1307	NaN	0.0000000000	0.0000000000	123.00384	123.00152	86
## 1308	NaN	0.0000000000	0.0000000000	118.78304	118.78073	110
## 1309	NaN	0.0000000000	0.0000000000	119.06134	119.05902	97
## 1310	NaN	0.0000000000	0.0000000000	118.69028	118.68796	109
## 1311	NaN	0.0000000000	0.0000000000	118.78304	118.78073	108
## 1312	NaN	0.0000000000	0.0000000000	119.06134	119.05902	126
## 1313	NaN	0.0000000000	0.0000000000	118.50475	118.50243	100
## 1314	NaN	0.0000000000	0.0000000000	123.00384	123.00152	137
## 1315	NaN	0.0000000000	0.0000000000	123.00384	123.00152	115
## 1316	2.477744e-06	-0.1195422896	-0.0492869633	109.79319	109.79087	128
## 1317	NaN	0.0000000000	0.0000000000	119.98898	119.98667	131
## 1318	NaN	0.0000000000	0.0000000000	120.91663	120.91431	130
## 1319	NaN	0.0000000000	0.0000000000	117.57710	117.57478	129
## 1320	NaN	0.0000000000	0.0000000000	119.52516	119.52284	114
## 1321	NaN	0.0000000000	0.0000000000	118.31922	118.31690	111
## 1322	NaN	0.0000000000	0.0000000000	119.98898	119.98667	192
## 1323	7.004506e-07	-0.0267833422	-0.0116141907	120.68680	120.68448	87
## 1324	NaN	0.0000000000	0.0000000000	118.41198	118.40967	98
## 1325	1.514396e-06	-0.0872706121	-0.0367343690	112.11022	112.10791	115
## 1326	NaN	0.0000000000	0.0000000000	119.98898	119.98667	151

## 1327	NaN	0.0000000000	0.0000000000	117.57710	117.57478	96
## 1328	NaN	0.0000000000	0.0000000000	118.41198	118.40967	54
## 1329	NaN	0.0000000000	0.0000000000	119.52516	119.52284	110
## 1330	NaN	0.0000000000	0.0000000000	118.59751	118.59520	125
## 1331	NaN	0.0000000000	0.0000000000	120.45281	120.45049	108
## 1332	9.168201e-07	-0.0566681933	-0.0243278095	114.42726	114.42494	112
## 1333	7.651848e-07	-0.0514396434	-0.0222334632	113.22090	113.21859	128
## 1334	NaN	0.0000000000	0.0000000000	118.69028	118.68796	131
## 1335	NaN	0.0000000000	0.0000000000	119.06134	119.05902	87
## 1336	NaN	0.0000000000	0.0000000000	120.45281	120.45049	125
## 1337	1.421469e-06	-0.0884485174	-0.0373256686	110.53322	110.53091	104
## 1338	NaN	0.0000000000	0.0000000000	118.50475	118.50243	149
## 1339	NaN	0.0000000000	0.0000000000	118.59751	118.59520	166
## 1340	NaN	0.0000000000	0.0000000000	117.57710	117.57478	113
## 1341	NaN	0.0000000000	0.0000000000	117.57710	117.57478	139
## 1342	NaN	0.0000000000	0.0000000000	119.98898	119.98667	102
## 1343	NaN	0.0000000000	0.0000000000	119.06134	119.05902	139
## 1344	NaN	0.0000000000	0.0000000000	118.41198	118.40967	119
## 1345	8.556162e-07	-0.0573678498	-0.0246925584	112.94303	112.94071	91
## 1346	NaN	0.0000000000	0.0000000000	119.52516	119.52284	153
## 1347	NaN	0.0000000000	0.0000000000	120.91663	120.91431	87
## 1348	1.441649e-06	-0.0881674552	-0.0371859207	110.90428	110.90197	80
## 1349	2.567460e-06	-0.1185944688	-0.0488202895	110.72083	110.71852	124
## 1350	NaN	0.0000000000	0.0000000000	119.06134	119.05902	149
## 1351	NaN	0.0000000000	0.0000000000	117.39157	117.38925	135
## 1352	NaN	0.0000000000	0.0000000000	119.52516	119.52284	132
## 1353	NaN	0.0000000000	0.0000000000	120.45281	120.45049	142
## 1354	NaN	0.0000000000	0.0000000000	117.76263	117.76031	130
## 1355	NaN	0.0000000000	0.0000000000	119.52516	119.52284	123
## 1356	NaN	0.0000000000	0.0000000000	121.38046	121.37814	126
## 1357	NaN	0.0000000000	0.0000000000	119.98898	119.98667	116
## 1358	NaN	0.0000000000	0.0000000000	119.52516	119.52284	116
## 1359	NaN	0.0000000000	0.0000000000	117.57710	117.57478	99
## 1360	4.240060e-07	-0.0165229516	-0.0072937579	116.74347	116.74115	119
## 1361	NaN	0.0000000000	0.0000000000	119.98898	119.98667	122
## 1362	8.521572e-07	-0.0574123750	-0.0247154882	112.85026	112.84794	115
## 1363	NaN	0.0000000000	0.0000000000	119.06134	119.05902	111
## 1364	NaN	0.0000000000	0.0000000000	117.94816	117.94584	108
## 1365	NaN	0.0000000000	0.0000000000	119.98898	119.98667	140

## 1366	NaN	0.0000000000	0.0000000000	119.98898	119.98667	119
## 1367	NaN	0.0000000000	0.0000000000	119.52516	119.52284	134
## 1368	1.457457e-06	-0.0879582572	-0.0370813545	111.18258	111.18026	130
## 1369	NaN	0.0000000000	0.0000000000	117.76263	117.76031	107
## 1370	NaN	0.0000000000	0.0000000000	120.91663	120.91431	147
## 1371	NaN	0.0000000000	0.0000000000	117.39157	117.38925	109
## 1372	NaN	0.0000000000	0.0000000000	120.45281	120.45049	114
## 1373	NaN	0.0000000000	0.0000000000	118.69028	118.68796	118
## 1374	NaN	0.0000000000	0.0000000000	120.91663	120.91431	110
## 1375	NaN	0.0000000000	0.0000000000	120.91663	120.91431	127
## 1376	2.436625e-06	-0.1200239220	-0.0495215794	109.32936	109.32705	102
## 1377	NaN	0.0000000000	0.0000000000	121.38046	121.37814	158
## 1378	NaN	0.0000000000	0.0000000000	119.06134	119.05902	113
## 1379	NaN	0.0000000000	0.0000000000	118.41198	118.40967	121
## 1380	NaN	0.0000000000	0.0000000000	117.11328	117.11096	130
## 1381	NaN	0.0000000000	0.0000000000	117.48434	117.48202	85
## 1382	NaN	0.0000000000	0.0000000000	118.13369	118.13137	87
## 1383	NaN	0.0000000000	0.0000000000	119.06134	119.05902	135
## 1384	NaN	0.0000000000	0.0000000000	119.52516	119.52284	110
## 1385	NaN	0.0000000000	0.0000000000	117.48434	117.48202	146
## 1386	NaN	0.0000000000	0.0000000000	123.00384	123.00152	135
## 1387	NaN	0.0000000000	0.0000000000	119.52516	119.52284	118
## 1388	NaN	0.0000000000	0.0000000000	120.45281	120.45049	111
## 1389	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	109
## 1390	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	133
## 1391	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	129
## 1392	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	126
## 1393	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	134
## 1394	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	118
## 1395	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	140
## 1396	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	86
## 1397	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	121
## 1398	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	129
## 1399	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	101
## 1400	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	133
## 1401	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	61
## 1402	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	104
## 1403	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	92
## 1404	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	122

## 1405	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	159
## 1406	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	154
## 1407	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	120
## 1408	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	138
## 1409	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	127
## 1410	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
## 1411	1.638619e-03	0.0046951322	0.0201744399	115.63154	115.63214	129
## 1412	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	129
## 1413	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	156
## 1414	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	124
## 1415	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	79
## 1416	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	112
## 1417	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
## 1418	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	134
## 1419	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
## 1420	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	124
## 1421	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	122
## 1422	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	104
## 1423	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	105
## 1424	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	113
## 1425	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	131
## 1426	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	107
## 1427	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	115
## 1428	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	97
## 1429	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
## 1430	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	132
## 1431	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	108
## 1432	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	114
## 1433	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	134
## 1434	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	134
## 1435	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	141
## 1436	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	84
## 1437	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	88
## 1438	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	130
## 1439	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	132
## 1440	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	133
## 1441	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	108
## 1442	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	92
## 1443	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	127

## 1444	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	131
## 1445	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	104
## 1446	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	122
## 1447	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	97
## 1448	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	122
## 1449	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	118
## 1450	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	140
## 1451	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	131
## 1452	1.839938e-03	0.0001530234	0.0006723852	112.38644	112.38704	104
## 1453	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	114
## 1454	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	141
## 1455	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
## 1456	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	152
## 1457	1.674526e-03	0.0024152984	0.0104209475	108.40172	108.40231	119
## 1458	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	135
## 1459	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	138
## 1460	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	108
## 1461	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	97
## 1462	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	131
## 1463	1.429665e-03	0.0066024991	0.0276676861	100.15398	100.15457	115
## 1464	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	123
## 1465	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	115
## 1466	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	132
## 1467	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	133
## 1468	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	125
## 1469	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	117
## 1470	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	116
## 1471	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	152
## 1472	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	101
## 1473	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	107
## 1474	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	136
## 1475	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	120
## 1476	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	127
## 1477	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	123
## 1478	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	135
## 1479	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	86
## 1480	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	97
## 1481	1.730659e-03	0.0023044369	0.0100055675	113.03579	113.03639	93
## 1482	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	96

## 1483	1.641776e-03	0.0041614920	0.0178879444	113.59238	113.59298	109
## 1484	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	117
## 1485	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	115
## 1486	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	121
## 1487	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
## 1488	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	118
## 1489	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	134
## 1490	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	156
## 1491	1.716084e-03	0.0034284988	0.0148619095	116.65070	116.65130	139
## 1492	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	136
## 1493	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	115
## 1494	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	23
## 1495	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	135
## 1496	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	106
## 1497	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	116
## 1498	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	147
## 1499	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	115
## 1500	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	85
## 1501	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	102
## 1502	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	122
## 1503	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	109
## 1504	1.266933e-03	0.0122631323	0.0503116469	111.18466	111.18526	97
## 1505	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	136
## 1506	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	131
## 1507	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	116
## 1508	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	86
## 1509	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	155
## 1510	1.615370e-03	0.0023037652	0.0098724450	99.04080	99.04140	122
## 1511	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	105
## 1512	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	131
## 1513	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	126
## 1514	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	127
## 1515	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	125
## 1516	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	98
## 1517	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	144
## 1518	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	91
## 1519	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
## 1520	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	128
## 1521	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	144

## 1522	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	91
## 1523	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	122
## 1524	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	139
## 1525	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	126
## 1526	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	107
## 1527	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	79
## 1528	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	102
## 1529	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	126
## 1530	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	120
## 1531	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	101
## 1532	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	131
## 1533	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
## 1534	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	142
## 1535	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	144
## 1536	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	58
## 1537	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	88
## 1538	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	123
## 1539	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	146
## 1540	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	135
## 1541	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	125
## 1542	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	125
## 1543	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	99
## 1544	1.426626e-03	0.0098365301	0.0412041430	118.13535	118.13595	120
## 1545	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	114
## 1546	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	88
## 1547	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
## 1548	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	123
## 1549	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	135
## 1550	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	116
## 1551	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	128
## 1552	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	111
## 1553	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	123
## 1554	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	115
## 1555	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	167
## 1556	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	82
## 1557	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	121
## 1558	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	114
## 1559	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	116
## 1560	1.747185e-03	0.0025533696	0.0111067495	115.44559	115.44619	141

## 1561	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	141
## 1562	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	120
## 1563	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	110
## 1564	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	120
## 1565	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	125
## 1566	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	82
## 1567	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	141
## 1568	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	144
## 1569	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	102
## 1570	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	121
## 1571	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	80
## 1572	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	106
## 1573	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116
## 1574	1.387287e-03	0.0101141835	0.0421567432	115.35491	115.35551	116
## 1575	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	123
## 1576	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	132
## 1577	1.152883e-03	0.0156027136	0.0630028432	112.11230	112.11290	118
## 1578	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	131
## 1579	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	152
## 1580	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	120
## 1581	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	145
## 1582	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	124
## 1583	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	142
## 1584	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	117
## 1585	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	100
## 1586	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	120
## 1587	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	145
## 1588	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
## 1589	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	166
## 1590	1.400120e-03	0.0100203513	0.0418339537	116.28172	116.28232	103
## 1591	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	133
## 1592	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	112
## 1593	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	119
## 1594	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	123
## 1595	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	107
## 1596	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	145
## 1597	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	133
## 1598	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	146
## 1599	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	134

## 1600	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	140
## 1601	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	95
## 1602	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	126
## 1603	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	134
## 1604	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	64
## 1605	1.489739e-03	0.0083034552	0.0350550410	117.67153	117.67213	119
## 1606	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	140
## 1607	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
## 1608	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	103
## 1609	1.327783e-03	0.0106031405	0.0438555174	110.72083	110.72143	68
## 1610	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	97
## 1611	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	120
## 1612	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	121
## 1613	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	130
## 1614	1.613094e-03	0.0047830601	0.0204916785	113.77791	113.77851	115
## 1615	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	112
## 1616	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	120
## 1617	1.503883e-03	0.0070336017	0.0297452248	113.50045	113.50104	103
## 1618	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	100
## 1619	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	117
## 1620	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	126
## 1621	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	142
## 1622	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
## 1623	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	111
## 1624	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	152
## 1625	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	124
## 1626	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	146
## 1627	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	102
## 1628	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	129
## 1629	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	125
## 1630	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	126
## 1631	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	101
## 1632	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	113
## 1633	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	136
## 1634	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	101
## 1635	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
## 1636	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	100
## 1637	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	130
## 1638	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	136

## 1639	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	100
## 1640	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	122
## 1641	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	90
## 1642	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	94
## 1643	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	108
## 1644	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	107
## 1645	1.526886e-03	0.0056665357	0.0240305719	109.32936	109.32996	119
## 1646	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	106
## 1647	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	113
## 1648	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	132
## 1649	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	99
## 1650	1.641776e-03	0.0041614920	0.0178879444	113.59238	113.59298	110
## 1651	1.387287e-03	0.0101141835	0.0421567432	115.35491	115.35551	76
## 1652	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	123
## 1653	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	123
## 1654	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	129
## 1655	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	95
## 1656	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	118
## 1657	1.689990e-03	0.0020920745	0.0090422001	108.30895	108.30955	115
## 1658	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	133
## 1659	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	139
## 1660	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	124
## 1661	1.599138e-03	0.0040366788	0.0172659160	108.86554	108.86614	60
## 1662	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	87
## 1663	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	130
## 1664	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	110
## 1665	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	73
## 1666	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	126
## 1667	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	125
## 1668	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	166
## 1669	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	122
## 1670	1.426626e-03	0.0098365301	0.0412041430	118.13535	118.13595	120
## 1671	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	143
## 1672	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	122
## 1673	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
## 1674	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	126
## 1675	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	156
## 1676	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	129
## 1677	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	120

## 1678	1.447199e-03	0.0097019658	0.0407450444	119.52558	119.52618	113
## 1679	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	81
## 1680	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	83
## 1681	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	129
## 1682	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	133
## 1683	1.512802e-03	0.0059934899	0.0253739803	109.42213	109.42273	112
## 1684	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	119
## 1685	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	139
## 1686	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	111
## 1687	1.303529e-03	0.0098618847	0.0406591396	100.98886	100.98946	81
## 1688	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	127
## 1689	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
## 1690	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	107
## 1691	1.737175e-03	0.0011245658	0.0048862573	108.03066	108.03125	98
## 1692	1.570937e-03	0.0057177253	0.0243752923	114.05620	114.05680	113
## 1693	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	104
## 1694	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	108
## 1695	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	144
## 1696	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	110
## 1697	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	138
## 1698	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	107
## 1699	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
## 1700	1.627377e-03	0.0044721198	0.0191912835	113.68514	113.68574	144
## 1701	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	136
## 1702	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	110
## 1703	1.721314e-03	0.0014467050	0.0062748658	108.12342	108.12402	105
## 1704	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
## 1705	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	117
## 1706	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	145
## 1707	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	96
## 1708	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	140
## 1709	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	101
## 1710	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	148
## 1711	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	135
## 1712	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	120
## 1713	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	130
## 1714	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	134
## 1715	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
## 1716	1.811418e-03	0.0001566361	0.0006861480	110.06940	110.07000	111

## 1717	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	128
## 1718	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	134
## 1719	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	141
## 1720	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	115
## 1721	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	98
## 1722	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	118
## 1723	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	130
## 1724	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	136
## 1725	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	129
## 1726	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	93
## 1727	1.599138e-03	0.0040366788	0.0172659160	108.86554	108.86614	91
## 1728	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	110
## 1729	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	112
## 1730	1.266933e-03	0.0122631323	0.0503116469	111.18466	111.18526	112
## 1731	1.437980e-03	0.0086179523	0.0361509968	113.96427	113.96487	98
## 1732	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	147
## 1733	1.743028e-03	0.0022831452	0.0099267465	113.96261	113.96320	92
## 1734	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	98
## 1735	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	98
## 1736	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	137
## 1737	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	113
## 1738	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	137
## 1739	1.295812e-03	0.0119753622	0.0493220077	113.50170	113.50229	71
## 1740	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	129
## 1741	1.808085e-03	0.0007659948	0.0033542467	112.57197	112.57257	149
## 1742	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	124
## 1743	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	138
## 1744	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	128
## 1745	1.387287e-03	0.0101141835	0.0421567432	115.35491	115.35551	122
## 1746	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	118
## 1747	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	128
## 1748	1.643986e-03	0.0030628082	0.0131686565	108.58724	108.58784	142
## 1749	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	127
## 1750	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	112
## 1751	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	113
## 1752	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	112
## 1753	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	82
## 1754	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	141
## 1755	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	107

## 1756	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	117
## 1757	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	127
## 1758	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	133
## 1759	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	118
## 1760	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	144
## 1761	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	109
## 1762	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	79
## 1763	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	124
## 1764	1.761256e-03	0.0016880439	0.0073541339	112.85026	112.85086	130
## 1765	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	271
## 1766	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	160
## 1767	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	127
## 1768	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	108
## 1769	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	90
## 1770	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	140
## 1771	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	126
## 1772	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	110
## 1773	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	127
## 1774	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	101
## 1775	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	92
## 1776	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	121
## 1777	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	102
## 1778	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	125
## 1779	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	141
## 1780	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	121
## 1781	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	127
## 1782	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	119
## 1783	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	106
## 1784	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	105
## 1785	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	104
## 1786	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	131
## 1787	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	96
## 1788	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	141
## 1789	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	93
## 1790	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	114
## 1791	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	112
## 1792	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	138
## 1793	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	136
## 1794	1.721314e-03	0.0014467050	0.0062748658	108.12342	108.12402	113

## 1795	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	105
## 1796	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	120
## 1797	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	35
## 1798	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	149
## 1799	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	122
## 1800	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	146
## 1801	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	161
## 1802	1.769301e-03	0.0004813953	0.0020991034	107.84513	107.84573	142
## 1803	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	119
## 1804	1.830055e-03	0.0010436853	0.0045810899	115.44518	115.44578	83
## 1805	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	136
## 1806	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	116
## 1807	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	93
## 1808	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	110
## 1809	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	124
## 1810	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	123
## 1811	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	129
## 1812	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	106
## 1813	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	130
## 1814	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	111
## 1815	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	115
## 1816	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	110
## 1817	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	117
## 1818	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	113
## 1819	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	114
## 1820	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	146
## 1821	1.721314e-03	0.0014467050	0.0062748658	108.12342	108.12402	98
## 1822	1.670926e-03	0.0035411838	0.0152723975	113.40685	113.40745	143
## 1823	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	116
## 1824	1.215877e-03	0.0128686555	0.0524276127	106.55058	106.55118	116
## 1825	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	75
## 1826	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	139
## 1827	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	120
## 1828	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	146
## 1829	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	145
## 1830	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	136
## 1831	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	120
## 1832	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	106
## 1833	1.295812e-03	0.0119753622	0.0493220077	113.50170	113.50229	109

## 1834	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	97
## 1835	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	30
## 1836	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	122
## 1837	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	130
## 1838	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	115
## 1839	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	116
## 1840	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	134
## 1841	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	127
## 1842	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	101
## 1843	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	145
## 1844	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	128
## 1845	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	130
## 1846	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	138
## 1847	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	133
## 1848	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	106
## 1849	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	135
## 1850	1.419841e-03	0.0087404097	0.0365814093	112.57405	112.57465	104
## 1851	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
## 1852	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	98
## 1853	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	123
## 1854	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	96
## 1855	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	119
## 1856	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	134
## 1857	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	83
## 1858	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	161
## 1859	1.762220e-03	0.0022517448	0.0098109943	115.35283	115.35343	109
## 1860	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	113
## 1861	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	98
## 1862	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	138
## 1863	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	120
## 1864	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	112
## 1865	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	104
## 1866	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	103
## 1867	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	156
## 1868	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	119
## 1869	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	134
## 1870	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	149
## 1871	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	106
## 1872	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	112

## 1873	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	139
## 1874	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	137
## 1875	1.569868e-03	0.0046876264	0.0199813425	109.05107	109.05167	90
## 1876	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	137
## 1877	1.555418e-03	0.0050136011	0.0213342631	109.14383	109.14443	140
## 1878	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	126
## 1879	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	112
## 1880	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	60
## 1881	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	109
## 1882	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	129
## 1883	1.823557e-03	0.0010484889	0.0045989556	114.98177	114.98237	104
## 1884	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	71
## 1885	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	86
## 1886	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	124
## 1887	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	112
## 1888	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	79
## 1889	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	95
## 1890	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	100
## 1891	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	100
## 1892	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	105
## 1893	1.599138e-03	0.0040366788	0.0172659160	108.86554	108.86614	107
## 1894	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	141
## 1895	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	142
## 1896	1.359263e-03	0.0114286448	0.0474642320	118.13577	118.13637	99
## 1897	1.603189e-03	0.0055867175	0.0239071361	116.37324	116.37384	112
## 1898	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
## 1899	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	147
## 1900	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	94
## 1901	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	148
## 1902	1.567845e-03	0.0038938993	0.0165940558	104.13870	104.13930	91
## 1903	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	131
## 1904	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	102
## 1905	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	161
## 1906	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	120
## 1907	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	105
## 1908	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	112
## 1909	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	130
## 1910	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	136
## 1911	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	110

##	1912	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
##	1913	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	124
##	1914	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	134
##	1915	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	136
##	1916	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
##	1917	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	108
##	1918	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	122
##	1919	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	137
##	1920	1.034649e-03	0.0205092819	0.0813699116	118.36976	118.37036	119
##	1921	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	144
##	1922	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	128
##	1923	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	104
##	1924	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	118
##	1925	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	93
##	1926	1.294382e-03	0.0130416449	0.0537033804	118.13619	118.13678	138
##	1927	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	135
##	1928	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	128
##	1929	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	118
##	1930	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	114
##	1931	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	120
##	1932	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	113
##	1933	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	110
##	1934	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	106
##	1935	1.643986e-03	0.0030628082	0.0131686565	108.58724	108.58784	125
##	1936	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	107
##	1937	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	130
##	1938	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	116
##	1939	1.301025e-03	0.0129814370	0.0535027936	118.59959	118.60019	102
##	1940	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	112
##	1941	9.758454e-04	0.0215030882	0.0845270967	113.73569	113.73629	124
##	1942	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	118
##	1943	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	125
##	1944	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	103
##	1945	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	115
##	1946	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	136
##	1947	1.557111e-03	0.0060298866	0.0256640032	114.14897	114.14957	120
##	1948	1.086075e-03	0.0197626647	0.0790226403	122.07702	122.07762	139
##	1949	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	137
##	1950	1.359263e-03	0.0114286448	0.0474642320	118.13577	118.13637	120

## 1951	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	113
## 1952	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	102
## 1953	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	132
## 1954	1.386529e-03	0.0112203355	0.0467627475	119.98940	119.99000	141
## 1955	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
## 1956	1.391321e-03	0.0089501383	0.0373241132	110.25701	110.25761	103
## 1957	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	117
## 1958	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	113
## 1959	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	136
## 1960	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	128
## 1961	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	110
## 1962	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	110
## 1963	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
## 1964	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	150
## 1965	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	117
## 1966	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	142
## 1967	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	111
## 1968	1.598927e-03	0.0050943095	0.0217891388	113.87067	113.87127	101
## 1969	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
## 1970	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
## 1971	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
## 1972	1.641776e-03	0.0041614920	0.0178879444	113.59238	113.59298	94
## 1973	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	110
## 1974	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	87
## 1975	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	109
## 1976	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	112
## 1977	1.689990e-03	0.0020920745	0.0090422001	108.30895	108.30955	108
## 1978	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	139
## 1979	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	104
## 1980	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	121
## 1981	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	110
## 1982	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	155
## 1983	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	147
## 1984	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	117
## 1985	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	113
## 1986	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	136
## 1987	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	105
## 1988	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	129
## 1989	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	114

##	1990	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	109
##	1991	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	108
##	1992	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	142
##	1993	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	99
##	1994	1.613961e-03	0.0037117120	0.0159033893	108.77277	108.77337	79
##	1995	1.705586e-03	0.0017692090	0.0076601764	108.21619	108.21678	102
##	1996	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	74
##	1997	1.852237e-03	0.0007416659	0.0032631729	115.81582	115.81642	109
##	1998	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	142
##	1999	1.387287e-03	0.0101141835	0.0421567432	115.35491	115.35551	98
##	2000	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	128
##	2001	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	107
##	2002	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	97
##	2003	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	125
##	2004	1.613961e-03	0.0037117120	0.0159033893	108.77277	108.77337	75
##	2005	1.372276e-03	0.0080475846	0.0334785209	100.52504	100.52563	136
##	2006	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
##	2007	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	104
##	2008	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	72
##	2009	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	112
##	2010	1.327783e-03	0.0106031405	0.0438555174	110.72083	110.72143	120
##	2011	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	103
##	2012	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	122
##	2013	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	136
##	2014	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
##	2015	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	138
##	2016	1.773553e-03	0.0016724543	0.0072960669	113.77708	113.77767	50
##	2017	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	75
##	2018	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	93
##	2019	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	119
##	2020	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	117
##	2021	1.776741e-03	0.0013803525	0.0060238793	112.75750	112.75809	102
##	2022	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	112
##	2023	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	106
##	2024	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	108
##	2025	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	112
##	2026	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	145
##	2027	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	134
##	2028	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	117

##	2029	1.406644e-03	0.0099739185	0.0416745563	116.74513	116.74573	114
##	2030	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	52
##	2031	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	125
##	2032	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	127
##	2033	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	132
##	2034	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	100
##	2035	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	80
##	2036	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	124
##	2037	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	123
##	2038	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	121
##	2039	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	136
##	2040	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	152
##	2041	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	132
##	2042	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	143
##	2043	1.529040e-03	0.0069035899	0.0292842358	115.35408	115.35468	114
##	2044	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	88
##	2045	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	81
##	2046	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	115
##	2047	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	150
##	2048	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	141
##	2049	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	125
##	2050	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	135
##	2051	1.689990e-03	0.0020920745	0.0090422001	108.30895	108.30955	120
##	2052	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	83
##	2053	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	143
##	2054	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	153
##	2055	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	150
##	2056	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	152
##	2057	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	148
##	2058	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	123
##	2059	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	117
##	2060	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
##	2061	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	92
##	2062	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	115
##	2063	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	105
##	2064	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	141
##	2065	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	104
##	2066	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	156
##	2067	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	131

##	2068	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	117
##	2069	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	141
##	2070	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	138
##	2071	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	136
##	2072	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	149
##	2073	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	144
##	2074	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	123
##	2075	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	114
##	2076	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	100
##	2077	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	127
##	2078	1.526886e-03	0.0056665357	0.0240305719	109.32936	109.32996	92
##	2079	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	138
##	2080	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	139
##	2081	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	124
##	2082	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	132
##	2083	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	151
##	2084	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	126
##	2085	1.419898e-03	0.0098820098	0.0413596681	117.67195	117.67255	95
##	2086	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	115
##	2087	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	109
##	2088	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	86
##	2089	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	128
##	2090	1.516303e-03	0.0069681511	0.0295127816	114.42726	114.42786	94
##	2091	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	144
##	2092	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	92
##	2093	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	117
##	2094	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	130
##	2095	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	82
##	2096	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	121
##	2097	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	98
##	2098	1.327783e-03	0.0106031405	0.0438555174	110.72083	110.72143	137
##	2099	1.295812e-03	0.0119753622	0.0493220077	113.50170	113.50229	114
##	2100	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	121
##	2101	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
##	2102	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	119
##	2103	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	151
##	2104	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	144
##	2105	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	124
##	2106	1.406644e-03	0.0099739185	0.0416745563	116.74513	116.74573	100

##	2107	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	160
##	2108	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	109
##	2109	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	138
##	2110	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	122
##	2111	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	109
##	2112	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	139
##	2113	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	125
##	2114	1.485877e-03	0.0071334660	0.0301014362	112.11022	112.11082	118
##	2115	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	114
##	2116	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	152
##	2117	1.386529e-03	0.0112203355	0.0467627475	119.98940	119.99000	114
##	2118	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
##	2119	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	149
##	2120	1.237621e-03	0.0136027080	0.0555849098	113.96552	113.96612	126
##	2121	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	114
##	2122	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	126
##	2123	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	115
##	2124	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
##	2125	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	160
##	2126	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	58
##	2127	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	108
##	2128	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	113
##	2129	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	140
##	2130	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	118
##	2131	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	111
##	2132	1.631083e-03	0.0049776247	0.0213697088	116.18771	116.18831	88
##	2133	1.034649e-03	0.0205092819	0.0813699116	118.36976	118.37036	133
##	2134	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	106
##	2135	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	137
##	2136	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	129
##	2137	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	132
##	2138	1.022376e-03	0.0207025514	0.0819806339	117.44295	117.44355	112
##	2139	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	122
##	2140	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	76
##	2141	1.034649e-03	0.0205092819	0.0813699116	118.36976	118.37036	122
##	2142	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	159
##	2143	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116
##	2144	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	104
##	2145	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116

##	2146	1.212641e-03	0.0148821218	0.0606033034	116.74638	116.74698	115
##	2147	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	159
##	2148	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	145
##	2149	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	121
##	2150	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	112
##	2151	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
##	2152	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	133
##	2153	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	136
##	2154	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	148
##	2155	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	133
##	2156	1.365985e-03	0.0113760241	0.0472867381	118.59918	118.59978	108
##	2157	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	91
##	2158	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	94
##	2159	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	123
##	2160	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	129
##	2161	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	108
##	2162	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	144
##	2163	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	132
##	2164	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	130
##	2165	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	105
##	2166	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	90
##	2167	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	154
##	2168	1.783919e-03	0.0019414999	0.0084793904	115.72347	115.72407	103
##	2169	1.485877e-03	0.0071334660	0.0301014362	112.11022	112.11082	87
##	2170	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	133
##	2171	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	117
##	2172	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	152
##	2173	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	119
##	2174	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	108
##	2175	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
##	2176	1.372771e-03	0.0113237672	0.0471106717	119.06259	119.06318	89
##	2177	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	132
##	2178	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	130
##	2179	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	124
##	2180	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	107
##	2181	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	125
##	2182	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	117
##	2183	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	117
##	2184	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	125

##	2185	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	106
##	2186	1.212641e-03	0.0148821218	0.0606033034	116.74638	116.74698	130
##	2187	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	129
##	2188	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	144
##	2189	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	104
##	2190	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	110
##	2191	1.685679e-03	0.0032315092	0.0139601710	113.31408	113.31468	113
##	2192	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	93
##	2193	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	106
##	2194	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	113
##	2195	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	120
##	2196	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	116
##	2197	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	129
##	2198	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	106
##	2199	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
##	2200	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	112
##	2201	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	123
##	2202	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	129
##	2203	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	100
##	2204	1.827825e-03	0.0013303937	0.0058381495	116.46476	116.46536	97
##	2205	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	127
##	2206	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	128
##	2207	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	122
##	2208	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	93
##	2209	1.557111e-03	0.0060298866	0.0256640032	114.14897	114.14957	90
##	2210	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	73
##	2211	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	133
##	2212	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	112
##	2213	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	98
##	2214	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	136
##	2215	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	78
##	2216	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	107
##	2217	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	147
##	2218	1.327783e-03	0.0106031405	0.0438555174	110.72083	110.72143	149
##	2219	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	106
##	2220	1.212641e-03	0.0148821218	0.0606033034	116.74638	116.74698	97
##	2221	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	134
##	2222	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	136
##	2223	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	136

##	2224	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	131
##	2225	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	112
##	2226	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	105
##	2227	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	120
##	2228	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	120
##	2229	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	115
##	2230	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	120
##	2231	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	141
##	2232	1.245097e-03	0.0145401040	0.0594763345	119.06342	119.06402	119
##	2233	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	114
##	2234	1.387287e-03	0.0101141835	0.0421567432	115.35491	115.35551	143
##	2235	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	113
##	2236	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	118
##	2237	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	126
##	2238	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	120
##	2239	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	139
##	2240	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	104
##	2241	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	141
##	2242	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	114
##	2243	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	111
##	2244	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	94
##	2245	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	134
##	2246	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	113
##	2247	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	116
##	2248	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	114
##	2249	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	115
##	2250	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	122
##	2251	1.599138e-03	0.0040366788	0.0172659160	108.86554	108.86614	118
##	2252	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	115
##	2253	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	104
##	2254	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	134
##	2255	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	143
##	2256	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	143
##	2257	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	106
##	2258	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	127
##	2259	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	122
##	2260	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	115
##	2261	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	139
##	2262	1.598927e-03	0.0050943095	0.0217891388	113.87067	113.87127	114

##	2263	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	108
##	2264	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	127
##	2265	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	111
##	2266	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	91
##	2267	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	96
##	2268	1.656292e-03	0.0038511790	0.0165816522	113.49961	113.50021	103
##	2269	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	78
##	2270	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	98
##	2271	1.408822e-03	0.0076640837	0.0320320795	105.15911	105.15971	94
##	2272	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	135
##	2273	1.613961e-03	0.0037117120	0.0159033893	108.77277	108.77337	124
##	2274	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	108
##	2275	1.557111e-03	0.0060298866	0.0256640032	114.14897	114.14957	128
##	2276	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	139
##	2277	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	128
##	2278	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	102
##	2279	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	136
##	2280	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	146
##	2281	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	136
##	2282	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	89
##	2283	1.710074e-03	0.0008420825	0.0036478164	103.30382	103.30441	102
##	2284	1.693705e-03	0.0011796201	0.0051005988	103.39658	103.39718	138
##	2285	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	128
##	2286	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	124
##	2287	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	122
##	2288	1.814556e-03	0.0013426300	0.0058834174	115.53794	115.53854	101
##	2289	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	118
##	2290	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	70
##	2291	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	136
##	2292	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	152
##	2293	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	98
##	2294	1.700551e-03	0.0029221581	0.0126449633	113.22132	113.22192	68
##	2295	1.687105e-03	0.0040290191	0.0174082345	116.83623	116.83683	101
##	2296	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	94
##	2297	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	117
##	2298	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	96
##	2299	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	122
##	2300	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	132
##	2301	1.737175e-03	0.0011245658	0.0048862573	108.03066	108.03125	104

##	2302	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	130
##	2303	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	84
##	2304	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	159
##	2305	1.775419e-03	0.0022311649	0.0097354273	116.27964	116.28024	115
##	2306	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	126
##	2307	1.535524e-03	0.0068716399	0.0291713915	115.81748	115.81808	132
##	2308	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	101
##	2309	1.391321e-03	0.0089501383	0.0373241132	110.25701	110.25761	87
##	2310	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	147
##	2311	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	108
##	2312	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	103
##	2313	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	128
##	2314	1.797247e-03	0.0019237985	0.0084142953	116.65029	116.65088	97
##	2315	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	113
##	2316	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	128
##	2317	1.627377e-03	0.0044721198	0.0191912835	113.68514	113.68574	74
##	2318	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	95
##	2319	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
##	2320	1.599138e-03	0.0040366788	0.0172659160	108.86554	108.86614	129
##	2321	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	117
##	2322	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	109
##	2323	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	109
##	2324	1.702784e-03	0.0034601471	0.0149767464	115.72389	115.72449	129
##	2325	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	144
##	2326	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	131
##	2327	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	104
##	2328	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	120
##	2329	1.516303e-03	0.0069681511	0.0295127816	114.42726	114.42786	99
##	2330	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	103
##	2331	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	123
##	2332	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	134
##	2333	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	147
##	2334	1.391321e-03	0.0089501383	0.0373241132	110.25701	110.25761	83
##	2335	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	91
##	2336	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	124
##	2337	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	141
##	2338	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	56
##	2339	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	139
##	2340	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	133

##	2341	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	144
##	2342	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	130
##	2343	1.359263e-03	0.0114286448	0.0474642320	118.13577	118.13637	102
##	2344	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	109
##	2345	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	104
##	2346	1.603965e-03	0.0053310522	0.0228151360	115.35366	115.35426	134
##	2347	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	91
##	2348	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	159
##	2349	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	93
##	2350	1.485877e-03	0.0071334660	0.0301014362	112.11022	112.11082	131
##	2351	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
##	2352	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	126
##	2353	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	107
##	2354	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	76
##	2355	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	122
##	2356	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	104
##	2357	1.830055e-03	0.0010436853	0.0045810899	115.44518	115.44578	92
##	2358	1.715545e-03	0.0026131328	0.0113267654	113.12856	113.12915	101
##	2359	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	109
##	2360	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	113
##	2361	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	136
##	2362	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	147
##	2363	1.554734e-03	0.0055340005	0.0235467923	111.64640	111.64700	104
##	2364	1.540732e-03	0.0058532783	0.0248637520	111.73917	111.73976	117
##	2365	1.631807e-03	0.0019481594	0.0083644469	98.94803	98.94863	89
##	2366	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	101
##	2367	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	121
##	2368	1.557111e-03	0.0060298866	0.0256640032	114.14897	114.14957	120
##	2369	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116
##	2370	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	112
##	2371	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	125
##	2372	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	128
##	2373	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
##	2374	1.628910e-03	0.0033870873	0.0145376397	108.68001	108.68061	104
##	2375	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	123
##	2376	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	123
##	2377	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	164
##	2378	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	113
##	2379	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	102

##	2380	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	113
##	2381	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	99
##	2382	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	127
##	2383	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	132
##	2384	1.498837e-03	0.0063207646	0.0267142385	109.51489	109.51549	121
##	2385	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	91
##	2386	1.839938e-03	0.0001530234	0.0006723852	112.38644	112.38704	109
##	2387	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	112
##	2388	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
##	2389	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	149
##	2390	1.584876e-03	0.0054058653	0.0230836740	113.96344	113.96404	103
##	2391	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	120
##	2392	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	144
##	2393	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	116
##	2394	1.808085e-03	0.0007659948	0.0033542467	112.57197	112.57257	112
##	2395	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	128
##	2396	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	137
##	2397	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	127
##	2398	1.526846e-03	0.0061728665	0.0261776867	111.83193	111.83253	101
##	2399	1.356519e-03	0.0103544871	0.0429878832	113.03787	113.03847	92
##	2400	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	101
##	2401	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	121
##	2402	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	116
##	2403	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	127
##	2404	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	133
##	2405	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	128
##	2406	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	123
##	2407	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	122
##	2408	1.555418e-03	0.0050136011	0.0213342631	109.14383	109.14443	113
##	2409	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	128
##	2410	1.589408e-03	0.0058917042	0.0251716502	116.46601	116.46660	139
##	2411	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	141
##	2412	1.652855e-03	0.0043899228	0.0188938400	115.53877	115.53937	121
##	2413	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	123
##	2414	1.705586e-03	0.0017692090	0.0076601764	108.21619	108.21678	151
##	2415	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	119
##	2416	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	105
##	2417	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	133
##	2418	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	123

##	2419	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	111
##	2420	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	123
##	2421	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	123
##	2422	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	130
##	2423	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	154
##	2424	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
##	2425	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	90
##	2426	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	114
##	2427	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	123
##	2428	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	123
##	2429	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	136
##	2430	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	104
##	2431	1.526886e-03	0.0056665357	0.0240305719	109.32936	109.32996	128
##	2432	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	128
##	2433	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	160
##	2434	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	111
##	2435	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	141
##	2436	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	122
##	2437	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	98
##	2438	1.808085e-03	0.0007659948	0.0033542467	112.57197	112.57257	96
##	2439	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	127
##	2440	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	119
##	2441	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	43
##	2442	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	100
##	2443	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	139
##	2444	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	128
##	2445	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	115
##	2446	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	121
##	2447	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	134
##	2448	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	120
##	2449	1.689990e-03	0.0020920745	0.0090422001	108.30895	108.30955	104
##	2450	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	170
##	2451	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	132
##	2452	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	126
##	2453	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	142
##	2454	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	103
##	2455	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	112
##	2456	1.208666e-03	0.0139297680	0.0566936985	111.64848	111.64908	117
##	2457	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	131

##	2458	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	115
##	2459	1.557111e-03	0.0060298866	0.0256640032	114.14897	114.14957	118
##	2460	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	106
##	2461	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	126
##	2462	1.569868e-03	0.0046876264	0.0199813425	109.05107	109.05167	104
##	2463	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	143
##	2464	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	156
##	2465	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	137
##	2466	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	126
##	2467	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	134
##	2468	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	89
##	2469	1.391321e-03	0.0089501383	0.0373241132	110.25701	110.25761	64
##	2470	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
##	2471	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	121
##	2472	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	109
##	2473	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	38
##	2474	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	128
##	2475	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	132
##	2476	1.570937e-03	0.0057177253	0.0243752923	114.05620	114.05680	143
##	2477	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	100
##	2478	1.294382e-03	0.0130416449	0.0537033804	118.13619	118.13678	107
##	2479	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	103
##	2480	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	157
##	2481	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	126
##	2482	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	125
##	2483	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	102
##	2484	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	98
##	2485	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	96
##	2486	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	134
##	2487	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	94
##	2488	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	84
##	2489	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	155
##	2490	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	117
##	2491	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	169
##	2492	1.843293e-03	0.0010341755	0.0045458026	116.37199	116.37259	105
##	2493	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	118
##	2494	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	113
##	2495	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	114
##	2496	1.643986e-03	0.0030628082	0.0131686565	108.58724	108.58784	116

##	2497	1.776741e-03	0.0013803525	0.0060238793	112.75750	112.75809	79
##	2498	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	109
##	2499	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	146
##	2500	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	116
##	2501	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	93
##	2502	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	108
##	2503	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	115
##	2504	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	115
##	2505	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	119
##	2506	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	128
##	2507	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	119
##	2508	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	102
##	2509	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	130
##	2510	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	140
##	2511	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	107
##	2512	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	134
##	2513	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	126
##	2514	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	143
##	2515	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	122
##	2516	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	112
##	2517	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	151
##	2518	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	127
##	2519	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	158
##	2520	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	90
##	2521	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	114
##	2522	1.623751e-03	0.0052577599	0.0225532547	116.74388	116.74448	143
##	2523	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	109
##	2524	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	126
##	2525	1.294382e-03	0.0130416449	0.0537033804	118.13619	118.13678	153
##	2526	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	123
##	2527	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	72
##	2528	1.516303e-03	0.0069681511	0.0295127816	114.42726	114.42786	121
##	2529	1.562190e-03	0.0067460139	0.0287292448	117.67111	117.67171	137
##	2530	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	64
##	2531	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	119
##	2532	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	137
##	2533	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	98
##	2534	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	126
##	2535	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	142

##	2536	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	122
##	2537	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	112
##	2538	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	142
##	2539	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	108
##	2540	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	128
##	2541	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	124
##	2542	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	104
##	2543	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	118
##	2544	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	96
##	2545	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	106
##	2546	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	114
##	2547	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	142
##	2548	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	74
##	2549	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	146
##	2550	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	128
##	2551	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	115
##	2552	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	139
##	2553	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	143
##	2554	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	125
##	2555	1.659423e-03	0.0043697221	0.0188210263	116.00218	116.00278	120
##	2556	1.419898e-03	0.0098820098	0.0413596681	117.67195	117.67255	120
##	2557	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	135
##	2558	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	91
##	2559	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	117
##	2560	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	119
##	2561	9.758454e-04	0.0215030882	0.0845270967	113.73569	113.73629	128
##	2562	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	135
##	2563	1.542082e-03	0.0068399085	0.0290594827	116.28089	116.28149	91
##	2564	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	108
##	2565	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	110
##	2566	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	136
##	2567	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	126
##	2568	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	115
##	2569	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	136
##	2570	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116
##	2571	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	117
##	2572	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	152
##	2573	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	124
##	2574	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	115

##	2575	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	134
##	2576	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	146
##	2577	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	125
##	2578	1.643986e-03	0.0030628082	0.0131686565	108.58724	108.58784	89
##	2579	1.526846e-03	0.0061728665	0.0261776867	111.83193	111.83253	128
##	2580	1.736590e-03	0.0033818321	0.0146931617	118.04092	118.04152	133
##	2581	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	112
##	2582	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	143
##	2583	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	157
##	2584	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	99
##	2585	1.788999e-03	0.0013676076	0.0059762610	113.68431	113.68491	96
##	2586	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	128
##	2587	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	122
##	2588	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	119
##	2589	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	160
##	2590	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	108
##	2591	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	114
##	2592	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	115
##	2593	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	131
##	2594	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	118
##	2595	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	149
##	2596	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	114
##	2597	1.808041e-03	0.0013488109	0.0059063360	115.07453	115.07513	133
##	2598	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	112
##	2599	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	101
##	2600	1.823948e-03	0.0004593343	0.0020148494	112.47920	112.47980	86
##	2601	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	125
##	2602	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	135
##	2603	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	105
##	2604	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	107
##	2605	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	97
##	2606	1.903875e-03	0.0001461531	0.0006465689	117.02051	117.02111	158
##	2607	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	123
##	2608	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	110
##	2609	1.707667e-03	0.0039741601	0.0172110133	118.22645	118.22705	74
##	2610	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	93
##	2611	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	159
##	2612	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	114
##	2613	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	142

## 2614	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	139
## 2615	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	132
## 2616	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	151
## 2617	1.686127e-03	0.0026749529	0.0115564247	110.81152	110.81212	111
## 2618	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	115
## 2619	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	120
## 2620	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	155
## 2621	1.022376e-03	0.0207025514	0.0819806339	117.44295	117.44355	131
## 2622	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	124
## 2623	1.516303e-03	0.0069681511	0.0295127816	114.42726	114.42786	127
## 2624	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	125
## 2625	1.872399e-03	0.0007315882	0.0032257478	117.20604	117.20664	106
## 2626	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	144
## 2627	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	109
## 2628	1.709410e-03	0.0001818018	0.0007874885	95.70377	95.70436	121
## 2629	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	111
## 2630	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	145
## 2631	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	131
## 2632	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	129
## 2633	1.628910e-03	0.0033870873	0.0145376397	108.68001	108.68061	92
## 2634	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	111
## 2635	1.765962e-03	0.0027907112	0.0121643108	117.85540	117.85599	91
## 2636	1.548713e-03	0.0068083946	0.0289484967	116.74430	116.74490	124
## 2637	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	130
## 2638	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	137
## 2639	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	128
## 2640	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	133
## 2641	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	68
## 2642	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	97
## 2643	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	124
## 2644	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	129
## 2645	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	117
## 2646	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	93
## 2647	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	103
## 2648	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	134
## 2649	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	101
## 2650	1.795791e-03	0.0022008174	0.0096243943	117.66987	117.67046	137
## 2651	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	153
## 2652	1.372276e-03	0.0080475846	0.0334785209	100.52504	100.52563	96

##	2653	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	103
##	2654	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	112
##	2655	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	108
##	2656	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	97
##	2657	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	99
##	2658	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	130
##	2659	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	148
##	2660	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	119
##	2661	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	89
##	2662	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	128
##	2663	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	130
##	2664	1.689990e-03	0.0020920745	0.0090422001	108.30895	108.30955	120
##	2665	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	146
##	2666	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	102
##	2667	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	132
##	2668	1.255911e-03	0.0134117954	0.0549420002	115.35574	115.35634	90
##	2669	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	112
##	2670	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	119
##	2671	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	145
##	2672	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	125
##	2673	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	127
##	2674	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	134
##	2675	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	139
##	2676	1.450474e-03	0.0085376990	0.0358701033	114.89109	114.89168	106
##	2677	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	69
##	2678	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	114
##	2679	1.721314e-03	0.0014467050	0.0062748658	108.12342	108.12402	111
##	2680	1.688216e-03	0.0037630315	0.0162610188	115.81665	115.81725	123
##	2681	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	172
##	2682	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	128
##	2683	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	138
##	2684	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	77
##	2685	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	137
##	2686	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	93
##	2687	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	160
##	2688	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	104
##	2689	1.856842e-03	0.0010247945	0.0045110944	117.29881	117.29941	115
##	2690	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	176
##	2691	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	87

##	2692	1.280314e-03	0.0103620133	0.0425887631	96.35478	96.35538	90
##	2693	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	116
##	2694	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	134
##	2695	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	86
##	2696	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	110
##	2697	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	97
##	2698	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	109
##	2699	1.623537e-03	0.0057581868	0.0246992313	118.78304	118.78364	108
##	2700	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	126
##	2701	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	100
##	2702	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	137
##	2703	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	115
##	2704	1.457651e-03	0.0073044817	0.0307162131	109.79319	109.79378	128
##	2705	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	131
##	2706	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	130
##	2707	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	129
##	2708	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	114
##	2709	1.693373e-03	0.0042707705	0.0184658351	118.31922	118.31982	111
##	2710	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	192
##	2711	1.066369e-03	0.0200377597	0.0798854789	120.68680	120.68740	87
##	2712	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	98
##	2713	1.485877e-03	0.0071334660	0.0301014362	112.11022	112.11082	115
##	2714	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	151
##	2715	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	96
##	2716	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	54
##	2717	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	110
##	2718	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	125
##	2719	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	108
##	2720	1.516303e-03	0.0069681511	0.0295127816	114.42726	114.42786	112
##	2721	1.782825e-03	0.0013739585	0.0059999682	113.22090	113.22150	128
##	2722	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	131
##	2723	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	87
##	2724	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	125
##	2725	1.732146e-03	0.0017279493	0.0075037739	110.53322	110.53382	104
##	2726	1.665113e-03	0.0048648717	0.0209673114	118.50475	118.50535	149
##	2727	1.651147e-03	0.0051623571	0.0222139829	118.59751	118.59811	166
##	2728	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	113
##	2729	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	139
##	2730	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	102

## 2731	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	139
## 2732	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	119
## 2733	1.745896e-03	0.0019960729	0.0086813601	112.94303	112.94362	91
## 2734	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	153
## 2735	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	87
## 2736	1.671039e-03	0.0029913049	0.0129010483	110.90428	110.90488	80
## 2737	1.327783e-03	0.0106031405	0.0438555174	110.72083	110.72143	124
## 2738	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	149
## 2739	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	135
## 2740	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	132
## 2741	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	142
## 2742	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	130
## 2743	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	123
## 2744	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	126
## 2745	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	116
## 2746	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	116
## 2747	1.810878e-03	0.0019063373	0.0083502653	117.57710	117.57770	99
## 2748	1.701538e-03	0.0037286067	0.0161364745	116.74347	116.74407	119
## 2749	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	122
## 2750	1.761256e-03	0.0016880439	0.0073541339	112.85026	112.85086	115
## 2751	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	111
## 2752	1.751219e-03	0.0030861194	0.0134301153	117.94816	117.94876	108
## 2753	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	140
## 2754	1.454182e-03	0.0096577294	0.0405944502	119.98898	119.98958	119
## 2755	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	134
## 2756	1.626517e-03	0.0039423705	0.0169162796	111.18258	111.18317	130
## 2757	1.780819e-03	0.0024956096	0.0108957399	117.76263	117.76323	107
## 2758	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	147
## 2759	1.841403e-03	0.0013183232	0.0057936238	117.39157	117.39217	109
## 2760	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	114
## 2761	1.637288e-03	0.0054601297	0.0234579533	118.69028	118.69088	118
## 2762	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	110
## 2763	1.335159e-03	0.0126865985	0.0525236430	120.91663	120.91723	127
## 2764	1.526886e-03	0.0056665357	0.0240305719	109.32936	109.32996	102
## 2765	1.279079e-03	0.0142097869	0.0583937480	121.38046	121.38105	158
## 2766	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	113
## 2767	1.679188e-03	0.0045676753	0.0197179316	118.41198	118.41258	121
## 2768	1.888077e-03	0.0004387068	0.0019375755	117.11328	117.11388	130
## 2769	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	85

##	2770	1.722073e-03	0.0036778464	0.0159534583	118.13369	118.13429	87
##	2771	1.582917e-03	0.0066540410	0.0284069900	119.06134	119.06194	135
##	2772	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	110
##	2773	1.826082e-03	0.0016121717	0.0070733446	117.48434	117.48493	146
##	2774	1.099480e-03	0.0195824537	0.0784585191	123.00384	123.00444	135
##	2775	1.517293e-03	0.0081525958	0.0345334845	119.52516	119.52576	118
##	2776	1.393499e-03	0.0111691563	0.0465908535	120.45281	120.45341	111
##		cigs faminc	eps				
##	1	0	13.5	0.00500			
##	2	0	7.5	0.00500			
##	3	0	0.5	0.00500			
##	4	0	15.5	0.00500			
##	5	0	27.5	0.00500			
##	6	0	7.5	0.00500			
##	7	0	65.0	0.00500			
##	8	0	27.5	0.00500			
##	9	0	27.5	0.00500			
##	10	0	37.5	0.00500			
##	11	0	27.5	0.00500			
##	12	0	27.5	0.00500			
##	13	0	6.5	0.00500			
##	14	0	10.5	0.00500			
##	15	0	12.5	0.00500			
##	16	0	17.5	0.00500			
##	17	0	42.5	0.00500			
##	18	0	4.5	0.00500			
##	19	0	32.5	0.00500			
##	20	0	6.5	0.00500			
##	21	0	47.5	0.00500			
##	22	0	22.5	0.00500			
##	23	6	15.5	0.00500			
##	24	0	13.5	0.00500			
##	25	0	37.5	0.00500			
##	26	0	2.5	0.00500			
##	27	0	2.5	0.00500			
##	28	0	32.5	0.00500			
##	29	0	22.5	0.00500			
##	30	0	0.5	0.00500			
##	31	0	65.0	0.00500			

## 32	0	65.0	0.00500
## 33	0	65.0	0.00500
## 34	0	27.5	0.00500
## 35	0	7.5	0.00500
## 36	0	47.5	0.00500
## 37	0	65.0	0.00500
## 38	0	65.0	0.00500
## 39	0	32.5	0.00500
## 40	0	13.5	0.00500
## 41	0	65.0	0.00500
## 42	0	47.5	0.00500
## 43	0	37.5	0.00500
## 44	0	32.5	0.00500
## 45	0	18.5	0.00500
## 46	0	65.0	0.00500
## 47	0	65.0	0.00500
## 48	0	11.5	0.00500
## 49	0	32.5	0.00500
## 50	0	65.0	0.00500
## 51	0	17.5	0.00500
## 52	0	16.5	0.00500
## 53	0	22.5	0.00500
## 54	0	42.5	0.00500
## 55	0	32.5	0.00500
## 56	0	11.5	0.00500
## 57	0	65.0	0.00500
## 58	0	27.5	0.00500
## 59	0	27.5	0.00500
## 60	0	17.5	0.00500
## 61	0	65.0	0.00500
## 62	0	3.5	0.00500
## 63	0	0.5	0.00500
## 64	10	0.5	0.00500
## 65	0	3.5	0.00500
## 66	0	65.0	0.00500
## 67	0	22.5	0.00500
## 68	0	22.5	0.00500
## 69	20	7.5	0.00500
## 70	0	27.5	0.00500

## 71	0	18.5	0.00500
## 72	0	37.5	0.00500
## 73	0	22.5	0.00500
## 74	0	27.5	0.00500
## 75	40	18.5	0.00500
## 76	0	22.5	0.00500
## 77	0	0.5	0.00500
## 78	0	32.5	0.00500
## 79	0	27.5	0.00500
## 80	0	32.5	0.00500
## 81	0	15.5	0.00500
## 82	0	16.5	0.00500
## 83	0	19.5	0.00500
## 84	0	15.5	0.00500
## 85	0	14.5	0.00500
## 86	0	32.5	0.00500
## 87	0	14.5	0.00500
## 88	0	8.5	0.00500
## 89	0	8.5	0.00500
## 90	0	7.5	0.00500
## 91	0	32.5	0.00500
## 92	0	65.0	0.00500
## 93	10	7.5	0.00500
## 94	0	27.5	0.00500
## 95	10	13.5	0.00500
## 96	0	27.5	0.00500
## 97	0	18.5	0.00500
## 98	20	22.5	0.00500
## 99	0	65.0	0.00500
## 100	0	22.5	0.00500
## 101	0	42.5	0.00500
## 102	0	37.5	0.00500
## 103	3	11.5	0.00500
## 104	0	65.0	0.00500
## 105	0	7.5	0.00500
## 106	0	22.5	0.00500
## 107	0	65.0	0.00500
## 108	10	27.5	0.00500
## 109	0	7.5	0.00500

## 110	0	65.0	0.00500
## 111	0	8.5	0.00500
## 112	0	12.5	0.00500
## 113	0	37.5	0.00500
## 114	0	14.5	0.00500
## 115	0	65.0	0.00500
## 116	20	37.5	0.00500
## 117	0	27.5	0.00500
## 118	0	65.0	0.00500
## 119	0	32.5	0.00500
## 120	0	6.5	0.00500
## 121	0	65.0	0.00500
## 122	40	6.5	0.00500
## 123	0	65.0	0.00500
## 124	0	65.0	0.00500
## 125	0	7.5	0.00500
## 126	0	17.5	0.00500
## 127	0	27.5	0.00500
## 128	0	37.5	0.00500
## 129	0	22.5	0.00500
## 130	0	22.5	0.00500
## 131	0	65.0	0.00500
## 132	0	42.5	0.00500
## 133	0	2.5	0.00500
## 134	0	10.5	0.00500
## 135	0	42.5	0.00500
## 136	0	14.5	0.00500
## 137	0	42.5	0.00500
## 138	0	32.5	0.00500
## 139	0	3.5	0.00500
## 140	0	42.5	0.00500
## 141	0	15.5	0.00500
## 142	0	32.5	0.00500
## 143	0	19.5	0.00500
## 144	0	42.5	0.00500
## 145	0	65.0	0.00500
## 146	0	13.5	0.00500
## 147	0	27.5	0.00500
## 148	0	42.5	0.00500

## 149	0	5.5	0.00500
## 150	0	5.5	0.00500
## 151	0	65.0	0.00500
## 152	0	22.5	0.00500
## 153	0	18.5	0.00500
## 154	0	27.5	0.00500
## 155	0	65.0	0.00500
## 156	4	32.5	0.00500
## 157	0	22.5	0.00500
## 158	0	37.5	0.00500
## 159	0	65.0	0.00500
## 160	0	1.5	0.00500
## 161	0	27.5	0.00500
## 162	0	47.5	0.00500
## 163	0	32.5	0.00500
## 164	0	65.0	0.00500
## 165	0	8.5	0.00500
## 166	0	65.0	0.00500
## 167	0	27.5	0.00500
## 168	0	37.5	0.00500
## 169	0	37.5	0.00500
## 170	0	22.5	0.00500
## 171	0	37.5	0.00500
## 172	5	8.5	0.00500
## 173	0	42.5	0.00500
## 174	0	65.0	0.00500
## 175	0	12.5	0.00500
## 176	0	27.5	0.00500
## 177	0	27.5	0.00500
## 178	0	65.0	0.00500
## 179	0	22.5	0.00500
## 180	0	18.5	0.00500
## 181	0	13.5	0.00500
## 182	0	18.5	0.00500
## 183	0	27.5	0.00500
## 184	0	22.5	0.00500
## 185	0	65.0	0.00500
## 186	10	32.5	0.00500
## 187	0	22.5	0.00500

## 188	0	37.5	0.00500
## 189	20	47.5	0.00500
## 190	0	65.0	0.00500
## 191	0	32.5	0.00500
## 192	0	10.5	0.00500
## 193	0	22.5	0.00500
## 194	0	37.5	0.00500
## 195	0	65.0	0.00500
## 196	0	65.0	0.00500
## 197	0	10.5	0.00500
## 198	0	32.5	0.00500
## 199	0	32.5	0.00500
## 200	0	65.0	0.00500
## 201	0	47.5	0.00500
## 202	8	32.5	0.00500
## 203	0	6.5	0.00500
## 204	0	12.5	0.00500
## 205	0	47.5	0.00500
## 206	0	19.5	0.00500
## 207	0	7.5	0.00500
## 208	0	8.5	0.00500
## 209	0	19.5	0.00500
## 210	0	65.0	0.00500
## 211	0	32.5	0.00500
## 212	0	65.0	0.00500
## 213	0	19.5	0.00500
## 214	0	17.5	0.00500
## 215	0	27.5	0.00500
## 216	0	12.5	0.00500
## 217	4	27.5	0.00500
## 218	0	32.5	0.00500
## 219	0	22.5	0.00500
## 220	0	18.5	0.00500
## 221	20	32.5	0.00500
## 222	0	42.5	0.00500
## 223	0	37.5	0.00500
## 224	0	32.5	0.00500
## 225	0	9.5	0.00500
## 226	10	15.5	0.00500

## 227	0	65.0	0.00500
## 228	0	65.0	0.00500
## 229	12	22.5	0.00500
## 230	0	32.5	0.00500
## 231	0	65.0	0.00500
## 232	0	65.0	0.00500
## 233	0	5.5	0.00500
## 234	0	22.5	0.00500
## 235	0	13.5	0.00500
## 236	0	65.0	0.00500
## 237	0	65.0	0.00500
## 238	0	27.5	0.00500
## 239	0	27.5	0.00500
## 240	0	27.5	0.00500
## 241	0	10.5	0.00500
## 242	0	9.5	0.00500
## 243	0	0.5	0.00500
## 244	0	32.5	0.00500
## 245	0	19.5	0.00500
## 246	0	42.5	0.00500
## 247	0	65.0	0.00500
## 248	0	65.0	0.00500
## 249	0	42.5	0.00500
## 250	0	37.5	0.00500
## 251	0	6.5	0.00500
## 252	0	65.0	0.00500
## 253	0	1.5	0.00500
## 254	0	65.0	0.00500
## 255	0	32.5	0.00500
## 256	0	65.0	0.00500
## 257	20	17.5	0.00500
## 258	0	18.5	0.00500
## 259	0	13.5	0.00500
## 260	0	10.5	0.00500
## 261	0	18.5	0.00500
## 262	10	13.5	0.00500
## 263	10	32.5	0.00500
## 264	0	15.5	0.00500
## 265	0	10.5	0.00500

## 266	0	32.5	0.00500
## 267	0	13.5	0.00500
## 268	0	16.5	0.00500
## 269	20	6.5	0.00500
## 270	0	8.5	0.00500
## 271	0	22.5	0.00500
## 272	0	27.5	0.00500
## 273	20	12.5	0.00500
## 274	0	19.5	0.00500
## 275	0	65.0	0.00500
## 276	0	65.0	0.00500
## 277	0	15.5	0.00500
## 278	0	37.5	0.00500
## 279	0	47.5	0.00500
## 280	0	47.5	0.00500
## 281	0	37.5	0.00500
## 282	4	32.5	0.00500
## 283	0	65.0	0.00500
## 284	0	27.5	0.00500
## 285	0	65.0	0.00500
## 286	0	65.0	0.00500
## 287	0	32.5	0.00500
## 288	0	22.5	0.00500
## 289	0	17.5	0.00500
## 290	1	32.5	0.00500
## 291	0	65.0	0.00500
## 292	0	37.5	0.00500
## 293	0	37.5	0.00500
## 294	0	14.5	0.00500
## 295	20	18.5	0.00500
## 296	0	65.0	0.00500
## 297	0	47.5	0.00500
## 298	0	27.5	0.00500
## 299	40	27.5	0.00500
## 300	0	27.5	0.00500
## 301	0	22.5	0.00500
## 302	0	32.5	0.00500
## 303	20	3.5	0.00500
## 304	10	18.5	0.00500

## 305	0	19.5	0.00500
## 306	0	32.5	0.00500
## 307	0	22.5	0.00500
## 308	0	65.0	0.00500
## 309	0	65.0	0.00500
## 310	0	14.5	0.00500
## 311	0	65.0	0.00500
## 312	10	14.5	0.00500
## 313	0	37.5	0.00500
## 314	0	13.5	0.00500
## 315	20	4.5	0.00500
## 316	0	22.5	0.00500
## 317	0	37.5	0.00500
## 318	0	65.0	0.00500
## 319	0	11.5	0.00500
## 320	0	22.5	0.00500
## 321	0	65.0	0.00500
## 322	0	37.5	0.00500
## 323	0	10.5	0.00500
## 324	0	37.5	0.00500
## 325	0	22.5	0.00500
## 326	0	15.5	0.00500
## 327	0	65.0	0.00500
## 328	15	0.5	0.00500
## 329	0	32.5	0.00500
## 330	0	10.5	0.00500
## 331	0	22.5	0.00500
## 332	0	47.5	0.00500
## 333	0	27.5	0.00500
## 334	0	65.0	0.00500
## 335	0	47.5	0.00500
## 336	0	4.5	0.00500
## 337	0	8.5	0.00500
## 338	0	47.5	0.00500
## 339	20	12.5	0.00500
## 340	0	65.0	0.00500
## 341	0	9.5	0.00500
## 342	20	37.5	0.00500
## 343	12	27.5	0.00500

## 344	0	65.0	0.00500
## 345	8	7.5	0.00500
## 346	0	65.0	0.00500
## 347	0	47.5	0.00500
## 348	0	65.0	0.00500
## 349	0	42.5	0.00500
## 350	0	27.5	0.00500
## 351	15	37.5	0.00500
## 352	0	47.5	0.00500
## 353	10	2.5	0.00500
## 354	0	7.5	0.00500
## 355	0	6.5	0.00500
## 356	0	37.5	0.00500
## 357	10	32.5	0.00500
## 358	0	47.5	0.00500
## 359	0	42.5	0.00500
## 360	20	9.5	0.00500
## 361	0	47.5	0.00500
## 362	0	65.0	0.00500
## 363	0	22.5	0.00500
## 364	0	42.5	0.00500
## 365	0	37.5	0.00500
## 366	0	19.5	0.00500
## 367	0	42.5	0.00500
## 368	0	14.5	0.00500
## 369	0	37.5	0.00500
## 370	0	7.5	0.00500
## 371	0	37.5	0.00500
## 372	0	32.5	0.00500
## 373	0	9.5	0.00500
## 374	0	65.0	0.00500
## 375	0	32.5	0.00500
## 376	10	5.5	0.00500
## 377	0	42.5	0.00500
## 378	0	22.5	0.00500
## 379	0	42.5	0.00500
## 380	0	7.5	0.00500
## 381	0	13.5	0.00500
## 382	0	27.5	0.00500

## 383	0	42.5	0.00500
## 384	0	32.5	0.00500
## 385	0	32.5	0.00500
## 386	0	5.5	0.00500
## 387	0	47.5	0.00500
## 388	0	47.5	0.00500
## 389	0	42.5	0.00500
## 390	0	37.5	0.00500
## 391	0	32.5	0.00500
## 392	0	65.0	0.00500
## 393	0	47.5	0.00500
## 394	0	42.5	0.00500
## 395	0	27.5	0.00500
## 396	0	17.5	0.00500
## 397	0	18.5	0.00500
## 398	0	42.5	0.00500
## 399	0	37.5	0.00500
## 400	0	42.5	0.00500
## 401	0	32.5	0.00500
## 402	0	2.5	0.00500
## 403	0	18.5	0.00500
## 404	0	4.5	0.00500
## 405	0	22.5	0.00500
## 406	20	4.5	0.00500
## 407	0	27.5	0.00500
## 408	0	19.5	0.00500
## 409	0	27.5	0.00500
## 410	0	19.5	0.00500
## 411	0	18.5	0.00500
## 412	0	22.5	0.00500
## 413	0	22.5	0.00500
## 414	20	1.5	0.00500
## 415	0	4.5	0.00500
## 416	4	3.5	0.00500
## 417	0	3.5	0.00500
## 418	0	42.5	0.00500
## 419	0	37.5	0.00500
## 420	0	22.5	0.00500
## 421	0	37.5	0.00500

## 422	0	15.5	0.00500
## 423	0	27.5	0.00500
## 424	0	32.5	0.00500
## 425	0	22.5	0.00500
## 426	0	27.5	0.00500
## 427	0	27.5	0.00500
## 428	0	4.5	0.00500
## 429	0	27.5	0.00500
## 430	0	22.5	0.00500
## 431	0	27.5	0.00500
## 432	0	19.5	0.00500
## 433	20	4.5	0.00500
## 434	10	11.5	0.00500
## 435	0	27.5	0.00500
## 436	30	37.5	0.00500
## 437	0	6.5	0.00500
## 438	0	32.5	0.00500
## 439	0	18.5	0.00500
## 440	0	32.5	0.00500
## 441	0	42.5	0.00500
## 442	0	22.5	0.00500
## 443	0	16.5	0.00500
## 444	0	42.5	0.00500
## 445	15	37.5	0.00500
## 446	0	13.5	0.00500
## 447	0	22.5	0.00500
## 448	0	22.5	0.00500
## 449	0	37.5	0.00500
## 450	0	27.5	0.00500
## 451	0	16.5	0.00500
## 452	0	47.5	0.00500
## 453	0	22.5	0.00500
## 454	0	22.5	0.00500
## 455	0	47.5	0.00500
## 456	0	22.5	0.00500
## 457	0	14.5	0.00500
## 458	0	16.5	0.00500
## 459	0	14.5	0.00500
## 460	0	18.5	0.00500

## 461	0	3.5	0.00500
## 462	15	27.5	0.00500
## 463	0	22.5	0.00500
## 464	0	17.5	0.00500
## 465	0	18.5	0.00500
## 466	0	0.5	0.00500
## 467	0	17.5	0.00500
## 468	0	18.5	0.00500
## 469	0	0.5	0.00500
## 470	0	37.5	0.00500
## 471	5	7.5	0.00500
## 472	0	18.5	0.00500
## 473	0	4.5	0.00500
## 474	0	27.5	0.00500
## 475	0	6.5	0.00500
## 476	0	27.5	0.00500
## 477	0	11.5	0.00500
## 478	0	42.5	0.00500
## 479	0	22.5	0.00500
## 480	0	19.5	0.00500
## 481	0	65.0	0.00500
## 482	0	37.5	0.00500
## 483	0	42.5	0.00500
## 484	0	42.5	0.00500
## 485	0	37.5	0.00500
## 486	0	47.5	0.00500
## 487	20	14.5	0.00500
## 488	0	32.5	0.00500
## 489	20	15.5	0.00500
## 490	0	32.5	0.00500
## 491	0	18.5	0.00500
## 492	0	2.5	0.00500
## 493	0	5.5	0.00500
## 494	0	47.5	0.00500
## 495	5	3.5	0.00500
## 496	0	42.5	0.00500
## 497	0	6.5	0.00500
## 498	0	32.5	0.00500
## 499	0	47.5	0.00500

## 500	0	3.5	0.00500
## 501	0	27.5	0.00500
## 502	0	22.5	0.00500
## 503	0	27.5	0.00500
## 504	0	18.5	0.00500
## 505	20	12.5	0.00500
## 506	0	0.5	0.00500
## 507	0	1.5	0.00500
## 508	5	37.5	0.00500
## 509	5	18.5	0.00500
## 510	0	22.5	0.00500
## 511	0	47.5	0.00500
## 512	0	65.0	0.00500
## 513	0	65.0	0.00500
## 514	30	11.5	0.00500
## 515	0	32.5	0.00500
## 516	0	22.5	0.00500
## 517	0	32.5	0.00500
## 518	0	65.0	0.00500
## 519	0	27.5	0.00500
## 520	0	18.5	0.00500
## 521	0	37.5	0.00500
## 522	0	32.5	0.00500
## 523	0	19.5	0.00500
## 524	0	22.5	0.00500
## 525	0	27.5	0.00500
## 526	0	22.5	0.00500
## 527	0	47.5	0.00500
## 528	0	22.5	0.00500
## 529	0	18.5	0.00500
## 530	0	17.5	0.00500
## 531	0	18.5	0.00500
## 532	10	65.0	0.00500
## 533	0	32.5	0.00500
## 534	0	47.5	0.00500
## 535	0	13.5	0.00500
## 536	0	32.5	0.00500
## 537	0	65.0	0.00500
## 538	6	42.5	0.00500

## 539	0	32.5	0.00500
## 540	0	42.5	0.00500
## 541	0	37.5	0.00500
## 542	0	9.5	0.00500
## 543	0	37.5	0.00500
## 544	0	65.0	0.00500
## 545	0	42.5	0.00500
## 546	0	37.5	0.00500
## 547	20	9.5	0.00500
## 548	0	19.5	0.00500
## 549	0	19.5	0.00500
## 550	0	47.5	0.00500
## 551	5	42.5	0.00500
## 552	0	27.5	0.00500
## 553	20	65.0	0.00500
## 554	0	32.5	0.00500
## 555	0	47.5	0.00500
## 556	0	65.0	0.00500
## 557	0	6.5	0.00500
## 558	0	42.5	0.00500
## 559	10	19.5	0.00500
## 560	2	65.0	0.00500
## 561	0	27.5	0.00500
## 562	5	37.5	0.00500
## 563	0	27.5	0.00500
## 564	0	22.5	0.00500
## 565	0	27.5	0.00500
## 566	1	37.5	0.00500
## 567	0	22.5	0.00500
## 568	20	27.5	0.00500
## 569	0	32.5	0.00500
## 570	0	32.5	0.00500
## 571	0	37.5	0.00500
## 572	0	37.5	0.00500
## 573	0	19.5	0.00500
## 574	0	65.0	0.00500
## 575	0	65.0	0.00500
## 576	0	32.5	0.00500
## 577	0	42.5	0.00500

## 578	0	22.5	0.00500
## 579	0	22.5	0.00500
## 580	10	16.5	0.00500
## 581	0	22.5	0.00500
## 582	0	22.5	0.00500
## 583	0	65.0	0.00500
## 584	10	13.5	0.00500
## 585	0	32.5	0.00500
## 586	0	37.5	0.00500
## 587	0	37.5	0.00500
## 588	0	27.5	0.00500
## 589	20	6.5	0.00500
## 590	0	19.5	0.00500
## 591	0	32.5	0.00500
## 592	0	22.5	0.00500
## 593	0	65.0	0.00500
## 594	0	27.5	0.00500
## 595	0	18.5	0.00500
## 596	0	47.5	0.00500
## 597	0	1.5	0.00500
## 598	0	42.5	0.00500
## 599	0	1.5	0.00500
## 600	0	65.0	0.00500
## 601	0	22.5	0.00500
## 602	0	42.5	0.00500
## 603	0	0.5	0.00500
## 604	0	47.5	0.00500
## 605	0	65.0	0.00500
## 606	20	11.5	0.00500
## 607	20	5.5	0.00500
## 608	0	65.0	0.00500
## 609	3	2.5	0.00500
## 610	0	65.0	0.00500
## 611	10	32.5	0.00500
## 612	0	2.5	0.00500
## 613	0	47.5	0.00500
## 614	0	5.5	0.00500
## 615	0	65.0	0.00500
## 616	20	11.5	0.00500

## 617	40	22.5	0.00500
## 618	0	65.0	0.00500
## 619	0	13.5	0.00500
## 620	0	27.5	0.00500
## 621	0	65.0	0.00500
## 622	20	32.5	0.00500
## 623	0	65.0	0.00500
## 624	0	8.5	0.00500
## 625	0	27.5	0.00500
## 626	0	65.0	0.00500
## 627	0	32.5	0.00500
## 628	8	5.5	0.00500
## 629	20	22.5	0.00500
## 630	0	5.5	0.00500
## 631	0	27.5	0.00500
## 632	0	7.5	0.00500
## 633	10	4.5	0.00500
## 634	0	42.5	0.00500
## 635	0	32.5	0.00500
## 636	0	22.5	0.00500
## 637	0	27.5	0.00500
## 638	0	47.5	0.00500
## 639	0	32.5	0.00500
## 640	0	3.5	0.00500
## 641	7	32.5	0.00500
## 642	0	9.5	0.00500
## 643	0	47.5	0.00500
## 644	0	42.5	0.00500
## 645	0	9.5	0.00500
## 646	0	18.5	0.00500
## 647	0	37.5	0.00500
## 648	0	27.5	0.00500
## 649	0	37.5	0.00500
## 650	0	18.5	0.00500
## 651	0	65.0	0.00500
## 652	0	32.5	0.00500
## 653	0	27.5	0.00500
## 654	0	65.0	0.00500
## 655	8	22.5	0.00500

## 656	0	65.0	0.00500
## 657	0	37.5	0.00500
## 658	0	22.5	0.00500
## 659	0	47.5	0.00500
## 660	0	42.5	0.00500
## 661	0	12.5	0.00500
## 662	0	18.5	0.00500
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## 664	0	42.5	0.00500
## 665	0	27.5	0.00500
## 666	0	65.0	0.00500
## 667	0	65.0	0.00500
## 668	0	27.5	0.00500
## 669	10	27.5	0.00500
## 670	0	42.5	0.00500
## 671	0	27.5	0.00500
## 672	0	65.0	0.00500
## 673	0	65.0	0.00500
## 674	0	27.5	0.00500
## 675	0	27.5	0.00500
## 676	0	65.0	0.00500
## 677	0	14.5	0.00500
## 678	0	22.5	0.00500
## 679	0	10.5	0.00500
## 680	0	15.5	0.00500
## 681	0	32.5	0.00500
## 682	0	32.5	0.00500
## 683	0	4.5	0.00500
## 684	0	6.5	0.00500
## 685	0	8.5	0.00500
## 686	0	32.5	0.00500
## 687	0	32.5	0.00500
## 688	0	32.5	0.00500
## 689	0	47.5	0.00500
## 690	20	17.5	0.00500
## 691	0	37.5	0.00500
## 692	0	27.5	0.00500
## 693	0	7.5	0.00500
## 694	0	10.5	0.00500

## 695	0	22.5	0.00500
## 696	0	27.5	0.00500
## 697	5	32.5	0.00500
## 698	0	37.5	0.00500
## 699	0	4.5	0.00500
## 700	0	2.5	0.00500
## 701	0	47.5	0.00500
## 702	10	22.5	0.00500
## 703	0	1.5	0.00500
## 704	0	22.5	0.00500
## 705	0	27.5	0.00500
## 706	0	65.0	0.00500
## 707	0	42.5	0.00500
## 708	0	12.5	0.00500
## 709	0	47.5	0.00500
## 710	20	32.5	0.00500
## 711	15	37.5	0.00500
## 712	0	42.5	0.00500
## 713	0	22.5	0.00500
## 714	0	17.5	0.00500
## 715	0	32.5	0.00500
## 716	0	22.5	0.00500
## 717	0	18.5	0.00500
## 718	7	32.5	0.00500
## 719	0	27.5	0.00500
## 720	0	3.5	0.00500
## 721	0	15.5	0.00500
## 722	0	65.0	0.00500
## 723	0	37.5	0.00500
## 724	0	32.5	0.00500
## 725	0	9.5	0.00500
## 726	15	22.5	0.00500
## 727	0	42.5	0.00500
## 728	0	65.0	0.00500
## 729	1	37.5	0.00500
## 730	0	22.5	0.00500
## 731	0	15.5	0.00500
## 732	15	42.5	0.00500
## 733	0	14.5	0.00500

## 734	0	37.5	0.00500
## 735	0	22.5	0.00500
## 736	0	65.0	0.00500
## 737	0	47.5	0.00500
## 738	0	10.5	0.00500
## 739	0	65.0	0.00500
## 740	0	27.5	0.00500
## 741	0	65.0	0.00500
## 742	0	27.5	0.00500
## 743	0	65.0	0.00500
## 744	5	16.5	0.00500
## 745	10	65.0	0.00500
## 746	0	42.5	0.00500
## 747	0	12.5	0.00500
## 748	0	11.5	0.00500
## 749	0	37.5	0.00500
## 750	12	65.0	0.00500
## 751	0	32.5	0.00500
## 752	0	65.0	0.00500
## 753	10	65.0	0.00500
## 754	0	65.0	0.00500
## 755	0	65.0	0.00500
## 756	20	22.5	0.00500
## 757	0	65.0	0.00500
## 758	10	47.5	0.00500
## 759	10	27.5	0.00500
## 760	0	65.0	0.00500
## 761	0	65.0	0.00500
## 762	0	32.5	0.00500
## 763	0	22.5	0.00500
## 764	0	65.0	0.00500
## 765	0	65.0	0.00500
## 766	0	6.5	0.00500
## 767	0	65.0	0.00500
## 768	4	37.5	0.00500
## 769	0	65.0	0.00500
## 770	0	32.5	0.00500
## 771	0	27.5	0.00500
## 772	0	65.0	0.00500

## 773	0	27.5	0.00500
## 774	0	22.5	0.00500
## 775	0	22.5	0.00500
## 776	0	13.5	0.00500
## 777	0	22.5	0.00500
## 778	0	32.5	0.00500
## 779	0	12.5	0.00500
## 780	4	6.5	0.00500
## 781	15	22.5	0.00500
## 782	0	42.5	0.00500
## 783	0	42.5	0.00500
## 784	0	65.0	0.00500
## 785	0	27.5	0.00500
## 786	0	22.5	0.00500
## 787	0	65.0	0.00500
## 788	3	37.5	0.00500
## 789	0	65.0	0.00500
## 790	0	32.5	0.00500
## 791	0	65.0	0.00500
## 792	0	65.0	0.00500
## 793	0	22.5	0.00500
## 794	0	22.5	0.00500
## 795	0	17.5	0.00500
## 796	0	19.5	0.00500
## 797	0	27.5	0.00500
## 798	10	47.5	0.00500
## 799	0	47.5	0.00500
## 800	0	22.5	0.00500
## 801	0	9.5	0.00500
## 802	0	42.5	0.00500
## 803	10	10.5	0.00500
## 804	0	65.0	0.00500
## 805	0	47.5	0.00500
## 806	0	42.5	0.00500
## 807	20	22.5	0.00500
## 808	0	27.5	0.00500
## 809	0	65.0	0.00500
## 810	0	8.5	0.00500
## 811	0	22.5	0.00500

## 812	0	19.5	0.00500
## 813	0	8.5	0.00500
## 814	0	47.5	0.00500
## 815	0	8.5	0.00500
## 816	2	4.5	0.00500
## 817	0	65.0	0.00500
## 818	0	32.5	0.00500
## 819	0	12.5	0.00500
## 820	0	65.0	0.00500
## 821	10	19.5	0.00500
## 822	0	22.5	0.00500
## 823	0	27.5	0.00500
## 824	0	19.5	0.00500
## 825	0	15.5	0.00500
## 826	0	37.5	0.00500
## 827	0	13.5	0.00500
## 828	0	42.5	0.00500
## 829	0	65.0	0.00500
## 830	20	32.5	0.00500
## 831	0	37.5	0.00500
## 832	10	47.5	0.00500
## 833	0	65.0	0.00500
## 834	0	22.5	0.00500
## 835	0	27.5	0.00500
## 836	0	22.5	0.00500
## 837	0	27.5	0.00500
## 838	0	12.5	0.00500
## 839	0	19.5	0.00500
## 840	0	42.5	0.00500
## 841	0	27.5	0.00500
## 842	0	32.5	0.00500
## 843	0	65.0	0.00500
## 844	5	47.5	0.00500
## 845	0	27.5	0.00500
## 846	10	32.5	0.00500
## 847	0	65.0	0.00500
## 848	0	22.5	0.00500
## 849	0	65.0	0.00500
## 850	0	42.5	0.00500

## 851	0	32.5	0.00500
## 852	0	65.0	0.00500
## 853	0	42.5	0.00500
## 854	0	27.5	0.00500
## 855	0	65.0	0.00500
## 856	0	5.5	0.00500
## 857	0	22.5	0.00500
## 858	0	37.5	0.00500
## 859	0	2.5	0.00500
## 860	0	6.5	0.00500
## 861	0	18.5	0.00500
## 862	0	13.5	0.00500
## 863	20	12.5	0.00500
## 864	0	19.5	0.00500
## 865	0	9.5	0.00500
## 866	0	9.5	0.00500
## 867	0	13.5	0.00500
## 868	0	47.5	0.00500
## 869	0	10.5	0.00500
## 870	0	37.5	0.00500
## 871	0	27.5	0.00500
## 872	0	19.5	0.00500
## 873	0	15.5	0.00500
## 874	10	16.5	0.00500
## 875	0	32.5	0.00500
## 876	0	11.5	0.00500
## 877	0	10.5	0.00500
## 878	0	16.5	0.00500
## 879	0	9.5	0.00500
## 880	10	12.5	0.00500
## 881	0	9.5	0.00500
## 882	0	22.5	0.00500
## 883	30	22.5	0.00500
## 884	10	27.5	0.00500
## 885	20	11.5	0.00500
## 886	0	5.5	0.00500
## 887	10	19.5	0.00500
## 888	0	11.5	0.00500
## 889	0	27.5	0.00500

## 890	0	42.5	0.00500
## 891	0	3.5	0.00500
## 892	0	65.0	0.00500
## 893	0	16.5	0.00500
## 894	0	42.5	0.00500
## 895	30	2.5	0.00500
## 896	30	3.5	0.00500
## 897	0	8.5	0.00500
## 898	0	27.5	0.00500
## 899	0	12.5	0.00500
## 900	4	4.5	0.00500
## 901	0	37.5	0.00500
## 902	0	32.5	0.00500
## 903	0	22.5	0.00500
## 904	0	37.5	0.00500
## 905	0	19.5	0.00500
## 906	10	9.5	0.00500
## 907	3	13.5	0.00500
## 908	0	2.5	0.00500
## 909	0	0.5	0.00500
## 910	0	10.5	0.00500
## 911	0	47.5	0.00500
## 912	0	42.5	0.00500
## 913	20	3.5	0.00500
## 914	0	27.5	0.00500
## 915	0	19.5	0.00500
## 916	0	37.5	0.00500
## 917	3	7.5	0.00500
## 918	20	22.5	0.00500
## 919	7	22.5	0.00500
## 920	0	47.5	0.00500
## 921	20	27.5	0.00500
## 922	0	4.5	0.00500
## 923	0	18.5	0.00500
## 924	0	32.5	0.00500
## 925	0	37.5	0.00500
## 926	2	6.5	0.00500
## 927	0	42.5	0.00500
## 928	0	47.5	0.00500

## 929	10	14.5	0.00500
## 930	0	4.5	0.00500
## 931	0	65.0	0.00500
## 932	20	12.5	0.00500
## 933	0	37.5	0.00500
## 934	0	32.5	0.00500
## 935	0	6.5	0.00500
## 936	5	11.5	0.00500
## 937	0	14.5	0.00500
## 938	0	27.5	0.00500
## 939	0	32.5	0.00500
## 940	0	15.5	0.00500
## 941	10	22.5	0.00500
## 942	20	22.5	0.00500
## 943	0	65.0	0.00500
## 944	0	47.5	0.00500
## 945	0	17.5	0.00500
## 946	20	27.5	0.00500
## 947	0	32.5	0.00500
## 948	0	65.0	0.00500
## 949	0	65.0	0.00500
## 950	0	65.0	0.00500
## 951	0	32.5	0.00500
## 952	0	18.5	0.00500
## 953	0	42.5	0.00500
## 954	0	7.5	0.00500
## 955	5	37.5	0.00500
## 956	0	37.5	0.00500
## 957	0	1.5	0.00500
## 958	7	17.5	0.00500
## 959	0	65.0	0.00500
## 960	0	3.5	0.00500
## 961	0	4.5	0.00500
## 962	15	22.5	0.00500
## 963	0	22.5	0.00500
## 964	0	3.5	0.00500
## 965	0	17.5	0.00500
## 966	0	16.5	0.00500
## 967	0	10.5	0.00500

## 968	0	22.5	0.00500
## 969	4	3.5	0.00500
## 970	10	8.5	0.00500
## 971	0	1.5	0.00500
## 972	0	65.0	0.00500
## 973	0	42.5	0.00500
## 974	0	22.5	0.00500
## 975	15	17.5	0.00500
## 976	15	18.5	0.00500
## 977	40	5.5	0.00500
## 978	0	13.5	0.00500
## 979	0	17.5	0.00500
## 980	10	19.5	0.00500
## 981	0	65.0	0.00500
## 982	0	11.5	0.00500
## 983	0	65.0	0.00500
## 984	0	2.5	0.00500
## 985	0	65.0	0.00500
## 986	20	10.5	0.00500
## 987	0	42.5	0.00500
## 988	0	19.5	0.00500
## 989	0	5.5	0.00500
## 990	0	0.5	0.00500
## 991	0	65.0	0.00500
## 992	0	47.5	0.00500
## 993	0	14.5	0.00500
## 994	0	27.5	0.00500
## 995	20	22.5	0.00500
## 996	20	19.5	0.00500
## 997	0	15.5	0.00500
## 998	10	0.5	0.00500
## 999	0	47.5	0.00500
## 1000	0	22.5	0.00500
## 1001	0	15.5	0.00500
## 1002	10	17.5	0.00500
## 1003	0	47.5	0.00500
## 1004	0	15.5	0.00500
## 1005	0	18.5	0.00500
## 1006	10	2.5	0.00500

##	1007	0	18.5	0.00500
##	1008	0	27.5	0.00500
##	1009	0	32.5	0.00500
##	1010	15	19.5	0.00500
##	1011	15	32.5	0.00500
##	1012	0	22.5	0.00500
##	1013	0	19.5	0.00500
##	1014	0	6.5	0.00500
##	1015	0	27.5	0.00500
##	1016	0	10.5	0.00500
##	1017	0	47.5	0.00500
##	1018	0	19.5	0.00500
##	1019	0	22.5	0.00500
##	1020	20	15.5	0.00500
##	1021	0	8.5	0.00500
##	1022	5	19.5	0.00500
##	1023	0	1.5	0.00500
##	1024	6	14.5	0.00500
##	1025	0	27.5	0.00500
##	1026	20	5.5	0.00500
##	1027	0	5.5	0.00500
##	1028	0	14.5	0.00500
##	1029	0	32.5	0.00500
##	1030	0	22.5	0.00500
##	1031	0	22.5	0.00500
##	1032	0	27.5	0.00500
##	1033	10	27.5	0.00500
##	1034	0	13.5	0.00500
##	1035	0	22.5	0.00500
##	1036	0	22.5	0.00500
##	1037	0	65.0	0.00500
##	1038	0	19.5	0.00500
##	1039	0	37.5	0.00500
##	1040	0	32.5	0.00500
##	1041	0	11.5	0.00500
##	1042	0	27.5	0.00500
##	1043	20	17.5	0.00500
##	1044	0	37.5	0.00500
##	1045	0	10.5	0.00500

##	1046	0	32.5	0.00500
##	1047	0	37.5	0.00500
##	1048	0	32.5	0.00500
##	1049	0	37.5	0.00500
##	1050	10	2.5	0.00500
##	1051	0	15.5	0.00500
##	1052	0	42.5	0.00500
##	1053	0	22.5	0.00500
##	1054	0	22.5	0.00500
##	1055	0	2.5	0.00500
##	1056	0	32.5	0.00500
##	1057	0	32.5	0.00500
##	1058	0	18.5	0.00500
##	1059	0	27.5	0.00500
##	1060	0	2.5	0.00500
##	1061	20	6.5	0.00500
##	1062	0	37.5	0.00500
##	1063	0	65.0	0.00500
##	1064	0	47.5	0.00500
##	1065	0	42.5	0.00500
##	1066	0	27.5	0.00500
##	1067	0	32.5	0.00500
##	1068	20	42.5	0.00500
##	1069	0	17.5	0.00500
##	1070	0	42.5	0.00500
##	1071	10	19.5	0.00500
##	1072	0	32.5	0.00500
##	1073	0	42.5	0.00500
##	1074	20	14.5	0.00500
##	1075	0	15.5	0.00500
##	1076	0	32.5	0.00500
##	1077	0	37.5	0.00500
##	1078	0	6.5	0.00500
##	1079	0	32.5	0.00500
##	1080	0	42.5	0.00500
##	1081	20	27.5	0.00500
##	1082	0	65.0	0.00500
##	1083	0	65.0	0.00500
##	1084	0	27.5	0.00500

##	1085	0	32.5	0.00500
##	1086	0	32.5	0.00500
##	1087	0	37.5	0.00500
##	1088	10	18.5	0.00500
##	1089	0	22.5	0.00500
##	1090	6	42.5	0.00500
##	1091	0	27.5	0.00500
##	1092	0	37.5	0.00500
##	1093	0	11.5	0.00500
##	1094	0	18.5	0.00500
##	1095	0	3.5	0.00500
##	1096	0	18.5	0.00500
##	1097	0	13.5	0.00500
##	1098	0	22.5	0.00500
##	1099	0	65.0	0.00500
##	1100	0	22.5	0.00500
##	1101	0	16.5	0.00500
##	1102	0	27.5	0.00500
##	1103	0	42.5	0.00500
##	1104	2	3.5	0.00500
##	1105	0	22.5	0.00500
##	1106	0	19.5	0.00500
##	1107	0	12.5	0.00500
##	1108	20	9.5	0.00500
##	1109	10	4.5	0.00500
##	1110	0	27.5	0.00500
##	1111	0	47.5	0.00500
##	1112	0	22.5	0.00500
##	1113	0	9.5	0.00500
##	1114	0	65.0	0.00500
##	1115	0	7.5	0.00500
##	1116	0	65.0	0.00500
##	1117	0	4.5	0.00500
##	1118	0	27.5	0.00500
##	1119	0	19.5	0.00500
##	1120	0	6.5	0.00500
##	1121	0	16.5	0.00500
##	1122	0	65.0	0.00500
##	1123	0	22.5	0.00500

## 1124	0	2.5	0.00500
## 1125	0	22.5	0.00500
## 1126	0	32.5	0.00500
## 1127	0	9.5	0.00500
## 1128	0	16.5	0.00500
## 1129	0	32.5	0.00500
## 1130	0	17.5	0.00500
## 1131	0	6.5	0.00500
## 1132	0	65.0	0.00500
## 1133	0	37.5	0.00500
## 1134	4	17.5	0.00500
## 1135	0	19.5	0.00500
## 1136	0	32.5	0.00500
## 1137	6	42.5	0.00500
## 1138	0	32.5	0.00500
## 1139	0	18.5	0.00500
## 1140	10	22.5	0.00500
## 1141	3	22.5	0.00500
## 1142	0	32.5	0.00500
## 1143	0	18.5	0.00500
## 1144	0	12.5	0.00500
## 1145	0	9.5	0.00500
## 1146	0	22.5	0.00500
## 1147	0	27.5	0.00500
## 1148	0	0.5	0.00500
## 1149	0	22.5	0.00500
## 1150	0	6.5	0.00500
## 1151	0	65.0	0.00500
## 1152	0	19.5	0.00500
## 1153	0	27.5	0.00500
## 1154	0	12.5	0.00500
## 1155	0	42.5	0.00500
## 1156	0	13.5	0.00500
## 1157	0	65.0	0.00500
## 1158	0	2.5	0.00500
## 1159	0	65.0	0.00500
## 1160	0	9.5	0.00500
## 1161	0	37.5	0.00500
## 1162	0	19.5	0.00500

## 1163	0	17.5	0.00500
## 1164	0	9.5	0.00500
## 1165	0	65.0	0.00500
## 1166	0	65.0	0.00500
## 1167	5	14.5	0.00500
## 1168	5	32.5	0.00500
## 1169	0	17.5	0.00500
## 1170	0	2.5	0.00500
## 1171	0	18.5	0.00500
## 1172	0	22.5	0.00500
## 1173	20	65.0	0.00500
## 1174	0	65.0	0.00500
## 1175	6	22.5	0.00500
## 1176	0	0.5	0.00500
## 1177	0	22.5	0.00500
## 1178	0	47.5	0.00500
## 1179	0	65.0	0.00500
## 1180	0	65.0	0.00500
## 1181	0	32.5	0.00500
## 1182	0	65.0	0.00500
## 1183	0	0.5	0.00500
## 1184	0	65.0	0.00500
## 1185	0	42.5	0.00500
## 1186	0	13.5	0.00500
## 1187	0	22.5	0.00500
## 1188	0	65.0	0.00500
## 1189	0	16.5	0.00500
## 1190	20	9.5	0.00500
## 1191	15	19.5	0.00500
## 1192	0	11.5	0.00500
## 1193	0	8.5	0.00500
## 1194	0	42.5	0.00500
## 1195	0	27.5	0.00500
## 1196	0	14.5	0.00500
## 1197	8	4.5	0.00500
## 1198	0	15.5	0.00500
## 1199	0	27.5	0.00500
## 1200	0	65.0	0.00500
## 1201	0	16.5	0.00500

##	1202	0	37.5	0.00500
##	1203	0	65.0	0.00500
##	1204	0	37.5	0.00500
##	1205	0	7.5	0.00500
##	1206	0	22.5	0.00500
##	1207	0	47.5	0.00500
##	1208	0	32.5	0.00500
##	1209	5	4.5	0.00500
##	1210	0	32.5	0.00500
##	1211	0	15.5	0.00500
##	1212	10	1.5	0.00500
##	1213	0	65.0	0.00500
##	1214	0	37.5	0.00500
##	1215	0	12.5	0.00500
##	1216	0	16.5	0.00500
##	1217	0	47.5	0.00500
##	1218	0	0.5	0.00500
##	1219	0	18.5	0.00500
##	1220	0	32.5	0.00500
##	1221	0	13.5	0.00500
##	1222	0	2.5	0.00500
##	1223	0	47.5	0.00500
##	1224	0	32.5	0.00500
##	1225	0	22.5	0.00500
##	1226	0	65.0	0.00500
##	1227	0	9.5	0.00500
##	1228	0	65.0	0.00500
##	1229	15	8.5	0.00500
##	1230	0	9.5	0.00500
##	1231	0	22.5	0.00500
##	1232	0	22.5	0.00500
##	1233	12	65.0	0.00500
##	1234	0	22.5	0.00500
##	1235	10	22.5	0.00500
##	1236	0	10.5	0.00500
##	1237	0	2.5	0.00500
##	1238	0	9.5	0.00500
##	1239	0	4.5	0.00500
##	1240	46	0.5	0.00500

## 1241	0	32.5	0.00500
## 1242	0	47.5	0.00500
## 1243	0	5.5	0.00500
## 1244	0	17.5	0.00500
## 1245	20	10.5	0.00500
## 1246	0	12.5	0.00500
## 1247	0	9.5	0.00500
## 1248	5	22.5	0.00500
## 1249	0	32.5	0.00500
## 1250	0	22.5	0.00500
## 1251	0	8.5	0.00500
## 1252	0	1.5	0.00500
## 1253	0	32.5	0.00500
## 1254	0	15.5	0.00500
## 1255	0	37.5	0.00500
## 1256	0	47.5	0.00500
## 1257	0	65.0	0.00500
## 1258	0	27.5	0.00500
## 1259	0	27.5	0.00500
## 1260	0	65.0	0.00500
## 1261	0	32.5	0.00500
## 1262	0	7.5	0.00500
## 1263	0	4.5	0.00500
## 1264	40	22.5	0.00500
## 1265	0	8.5	0.00500
## 1266	0	6.5	0.00500
## 1267	0	27.5	0.00500
## 1268	0	18.5	0.00500
## 1269	0	27.5	0.00500
## 1270	0	27.5	0.00500
## 1271	0	22.5	0.00500
## 1272	0	27.5	0.00500
## 1273	0	19.5	0.00500
## 1274	0	27.5	0.00500
## 1275	0	37.5	0.00500
## 1276	20	6.5	0.00500
## 1277	0	32.5	0.00500
## 1278	0	15.5	0.00500
## 1279	0	27.5	0.00500

##	1280	12	42.5	0.00500
##	1281	0	32.5	0.00500
##	1282	0	47.5	0.00500
##	1283	0	16.5	0.00500
##	1284	0	42.5	0.00500
##	1285	0	5.5	0.00500
##	1286	0	22.5	0.00500
##	1287	0	65.0	0.00500
##	1288	10	27.5	0.00500
##	1289	0	42.5	0.00500
##	1290	0	32.5	0.00500
##	1291	20	4.5	0.00500
##	1292	5	12.5	0.00500
##	1293	0	65.0	0.00500
##	1294	0	65.0	0.00500
##	1295	0	22.5	0.00500
##	1296	0	32.5	0.00500
##	1297	0	65.0	0.00500
##	1298	0	65.0	0.00500
##	1299	0	8.5	0.00500
##	1300	0	47.5	0.00500
##	1301	0	3.5	0.00500
##	1302	0	22.5	0.00500
##	1303	0	65.0	0.00500
##	1304	50	27.5	0.00500
##	1305	0	65.0	0.00500
##	1306	0	10.5	0.00500
##	1307	0	65.0	0.00500
##	1308	0	19.5	0.00500
##	1309	0	22.5	0.00500
##	1310	0	18.5	0.00500
##	1311	0	19.5	0.00500
##	1312	0	22.5	0.00500
##	1313	0	16.5	0.00500
##	1314	0	65.0	0.00500
##	1315	0	65.0	0.00500
##	1316	20	22.5	0.00500
##	1317	0	32.5	0.00500
##	1318	0	42.5	0.00500

## 1319	0	6.5	0.00500
## 1320	0	27.5	0.00500
## 1321	0	14.5	0.00500
## 1322	0	32.5	0.00500
## 1323	5	65.0	0.00500
## 1324	0	15.5	0.00500
## 1325	15	22.5	0.00500
## 1326	0	32.5	0.00500
## 1327	0	6.5	0.00500
## 1328	0	15.5	0.00500
## 1329	0	27.5	0.00500
## 1330	0	17.5	0.00500
## 1331	0	37.5	0.00500
## 1332	10	22.5	0.00500
## 1333	9	4.5	0.00500
## 1334	0	18.5	0.00500
## 1335	0	22.5	0.00500
## 1336	0	37.5	0.00500
## 1337	15	5.5	0.00500
## 1338	0	16.5	0.00500
## 1339	0	17.5	0.00500
## 1340	0	6.5	0.00500
## 1341	0	6.5	0.00500
## 1342	0	32.5	0.00500
## 1343	0	22.5	0.00500
## 1344	0	15.5	0.00500
## 1345	10	6.5	0.00500
## 1346	0	27.5	0.00500
## 1347	0	42.5	0.00500
## 1348	15	9.5	0.00500
## 1349	20	32.5	0.00500
## 1350	0	22.5	0.00500
## 1351	0	4.5	0.00500
## 1352	0	27.5	0.00500
## 1353	0	37.5	0.00500
## 1354	0	8.5	0.00500
## 1355	0	27.5	0.00500
## 1356	0	47.5	0.00500
## 1357	0	32.5	0.00500

## 1358	0	27.5	0.00500
## 1359	0	6.5	0.00500
## 1360	3	12.5	0.00500
## 1361	0	32.5	0.00500
## 1362	10	5.5	0.00500
## 1363	0	22.5	0.00500
## 1364	0	10.5	0.00500
## 1365	0	32.5	0.00500
## 1366	0	32.5	0.00500
## 1367	0	27.5	0.00500
## 1368	15	12.5	0.00500
## 1369	0	8.5	0.00500
## 1370	0	42.5	0.00500
## 1371	0	4.5	0.00500
## 1372	0	37.5	0.00500
## 1373	0	18.5	0.00500
## 1374	0	42.5	0.00500
## 1375	0	42.5	0.00500
## 1376	20	17.5	0.00500
## 1377	0	47.5	0.00500
## 1378	0	22.5	0.00500
## 1379	0	15.5	0.00500
## 1380	0	1.5	0.00500
## 1381	0	5.5	0.00500
## 1382	0	12.5	0.00500
## 1383	0	22.5	0.00500
## 1384	0	27.5	0.00500
## 1385	0	5.5	0.00500
## 1386	0	65.0	0.00500
## 1387	0	27.5	0.00500
## 1388	0	37.5	0.00500
## 1389	0	13.5	0.00645
## 1390	0	7.5	0.00645
## 1391	0	0.5	0.00645
## 1392	0	15.5	0.00645
## 1393	0	27.5	0.00645
## 1394	0	7.5	0.00645
## 1395	0	65.0	0.00645
## 1396	0	27.5	0.00645

## 1397	0	27.5	0.00645
## 1398	0	37.5	0.00645
## 1399	0	27.5	0.00645
## 1400	0	27.5	0.00645
## 1401	0	6.5	0.00645
## 1402	0	10.5	0.00645
## 1403	0	12.5	0.00645
## 1404	0	17.5	0.00645
## 1405	0	42.5	0.00645
## 1406	0	4.5	0.00645
## 1407	0	32.5	0.00645
## 1408	0	6.5	0.00645
## 1409	0	47.5	0.00645
## 1410	0	22.5	0.00645
## 1411	6	15.5	0.00645
## 1412	0	13.5	0.00645
## 1413	0	37.5	0.00645
## 1414	0	2.5	0.00645
## 1415	0	2.5	0.00645
## 1416	0	32.5	0.00645
## 1417	0	22.5	0.00645
## 1418	0	0.5	0.00645
## 1419	0	65.0	0.00645
## 1420	0	65.0	0.00645
## 1421	0	65.0	0.00645
## 1422	0	27.5	0.00645
## 1423	0	7.5	0.00645
## 1424	0	47.5	0.00645
## 1425	0	65.0	0.00645
## 1426	0	65.0	0.00645
## 1427	0	32.5	0.00645
## 1428	0	13.5	0.00645
## 1429	0	65.0	0.00645
## 1430	0	47.5	0.00645
## 1431	0	37.5	0.00645
## 1432	0	32.5	0.00645
## 1433	0	18.5	0.00645
## 1434	0	65.0	0.00645
## 1435	0	65.0	0.00645

## 1436	0	11.5	0.00645
## 1437	0	32.5	0.00645
## 1438	0	65.0	0.00645
## 1439	0	17.5	0.00645
## 1440	0	16.5	0.00645
## 1441	0	22.5	0.00645
## 1442	0	42.5	0.00645
## 1443	0	32.5	0.00645
## 1444	0	11.5	0.00645
## 1445	0	65.0	0.00645
## 1446	0	27.5	0.00645
## 1447	0	27.5	0.00645
## 1448	0	17.5	0.00645
## 1449	0	65.0	0.00645
## 1450	0	3.5	0.00645
## 1451	0	0.5	0.00645
## 1452	10	0.5	0.00645
## 1453	0	3.5	0.00645
## 1454	0	65.0	0.00645
## 1455	0	22.5	0.00645
## 1456	0	22.5	0.00645
## 1457	20	7.5	0.00645
## 1458	0	27.5	0.00645
## 1459	0	18.5	0.00645
## 1460	0	37.5	0.00645
## 1461	0	22.5	0.00645
## 1462	0	27.5	0.00645
## 1463	40	18.5	0.00645
## 1464	0	22.5	0.00645
## 1465	0	0.5	0.00645
## 1466	0	32.5	0.00645
## 1467	0	27.5	0.00645
## 1468	0	32.5	0.00645
## 1469	0	15.5	0.00645
## 1470	0	16.5	0.00645
## 1471	0	19.5	0.00645
## 1472	0	15.5	0.00645
## 1473	0	14.5	0.00645
## 1474	0	32.5	0.00645

## 1475	0	14.5	0.00645
## 1476	0	8.5	0.00645
## 1477	0	8.5	0.00645
## 1478	0	7.5	0.00645
## 1479	0	32.5	0.00645
## 1480	0	65.0	0.00645
## 1481	10	7.5	0.00645
## 1482	0	27.5	0.00645
## 1483	10	13.5	0.00645
## 1484	0	27.5	0.00645
## 1485	0	18.5	0.00645
## 1486	20	22.5	0.00645
## 1487	0	65.0	0.00645
## 1488	0	22.5	0.00645
## 1489	0	42.5	0.00645
## 1490	0	37.5	0.00645
## 1491	3	11.5	0.00645
## 1492	0	65.0	0.00645
## 1493	0	7.5	0.00645
## 1494	0	22.5	0.00645
## 1495	0	65.0	0.00645
## 1496	10	27.5	0.00645
## 1497	0	7.5	0.00645
## 1498	0	65.0	0.00645
## 1499	0	8.5	0.00645
## 1500	0	12.5	0.00645
## 1501	0	37.5	0.00645
## 1502	0	14.5	0.00645
## 1503	0	65.0	0.00645
## 1504	20	37.5	0.00645
## 1505	0	27.5	0.00645
## 1506	0	65.0	0.00645
## 1507	0	32.5	0.00645
## 1508	0	6.5	0.00645
## 1509	0	65.0	0.00645
## 1510	40	6.5	0.00645
## 1511	0	65.0	0.00645
## 1512	0	65.0	0.00645
## 1513	0	7.5	0.00645

## 1514	0	17.5	0.00645
## 1515	0	27.5	0.00645
## 1516	0	37.5	0.00645
## 1517	0	22.5	0.00645
## 1518	0	22.5	0.00645
## 1519	0	65.0	0.00645
## 1520	0	42.5	0.00645
## 1521	0	2.5	0.00645
## 1522	0	10.5	0.00645
## 1523	0	42.5	0.00645
## 1524	0	14.5	0.00645
## 1525	0	42.5	0.00645
## 1526	0	32.5	0.00645
## 1527	0	3.5	0.00645
## 1528	0	42.5	0.00645
## 1529	0	15.5	0.00645
## 1530	0	32.5	0.00645
## 1531	0	19.5	0.00645
## 1532	0	42.5	0.00645
## 1533	0	65.0	0.00645
## 1534	0	13.5	0.00645
## 1535	0	27.5	0.00645
## 1536	0	42.5	0.00645
## 1537	0	5.5	0.00645
## 1538	0	5.5	0.00645
## 1539	0	65.0	0.00645
## 1540	0	22.5	0.00645
## 1541	0	18.5	0.00645
## 1542	0	27.5	0.00645
## 1543	0	65.0	0.00645
## 1544	4	32.5	0.00645
## 1545	0	22.5	0.00645
## 1546	0	37.5	0.00645
## 1547	0	65.0	0.00645
## 1548	0	1.5	0.00645
## 1549	0	27.5	0.00645
## 1550	0	47.5	0.00645
## 1551	0	32.5	0.00645
## 1552	0	65.0	0.00645

## 1553	0	8.5	0.00645
## 1554	0	65.0	0.00645
## 1555	0	27.5	0.00645
## 1556	0	37.5	0.00645
## 1557	0	37.5	0.00645
## 1558	0	22.5	0.00645
## 1559	0	37.5	0.00645
## 1560	5	8.5	0.00645
## 1561	0	42.5	0.00645
## 1562	0	65.0	0.00645
## 1563	0	12.5	0.00645
## 1564	0	27.5	0.00645
## 1565	0	27.5	0.00645
## 1566	0	65.0	0.00645
## 1567	0	22.5	0.00645
## 1568	0	18.5	0.00645
## 1569	0	13.5	0.00645
## 1570	0	18.5	0.00645
## 1571	0	27.5	0.00645
## 1572	0	22.5	0.00645
## 1573	0	65.0	0.00645
## 1574	10	32.5	0.00645
## 1575	0	22.5	0.00645
## 1576	0	37.5	0.00645
## 1577	20	47.5	0.00645
## 1578	0	65.0	0.00645
## 1579	0	32.5	0.00645
## 1580	0	10.5	0.00645
## 1581	0	22.5	0.00645
## 1582	0	37.5	0.00645
## 1583	0	65.0	0.00645
## 1584	0	65.0	0.00645
## 1585	0	10.5	0.00645
## 1586	0	32.5	0.00645
## 1587	0	32.5	0.00645
## 1588	0	65.0	0.00645
## 1589	0	47.5	0.00645
## 1590	8	32.5	0.00645
## 1591	0	6.5	0.00645

## 1592	0	12.5	0.00645
## 1593	0	47.5	0.00645
## 1594	0	19.5	0.00645
## 1595	0	7.5	0.00645
## 1596	0	8.5	0.00645
## 1597	0	19.5	0.00645
## 1598	0	65.0	0.00645
## 1599	0	32.5	0.00645
## 1600	0	65.0	0.00645
## 1601	0	19.5	0.00645
## 1602	0	17.5	0.00645
## 1603	0	27.5	0.00645
## 1604	0	12.5	0.00645
## 1605	4	27.5	0.00645
## 1606	0	32.5	0.00645
## 1607	0	22.5	0.00645
## 1608	0	18.5	0.00645
## 1609	20	32.5	0.00645
## 1610	0	42.5	0.00645
## 1611	0	37.5	0.00645
## 1612	0	32.5	0.00645
## 1613	0	9.5	0.00645
## 1614	10	15.5	0.00645
## 1615	0	65.0	0.00645
## 1616	0	65.0	0.00645
## 1617	12	22.5	0.00645
## 1618	0	32.5	0.00645
## 1619	0	65.0	0.00645
## 1620	0	65.0	0.00645
## 1621	0	5.5	0.00645
## 1622	0	22.5	0.00645
## 1623	0	13.5	0.00645
## 1624	0	65.0	0.00645
## 1625	0	65.0	0.00645
## 1626	0	27.5	0.00645
## 1627	0	27.5	0.00645
## 1628	0	27.5	0.00645
## 1629	0	10.5	0.00645
## 1630	0	9.5	0.00645

## 1631	0	0.5	0.00645
## 1632	0	32.5	0.00645
## 1633	0	19.5	0.00645
## 1634	0	42.5	0.00645
## 1635	0	65.0	0.00645
## 1636	0	65.0	0.00645
## 1637	0	42.5	0.00645
## 1638	0	37.5	0.00645
## 1639	0	6.5	0.00645
## 1640	0	65.0	0.00645
## 1641	0	1.5	0.00645
## 1642	0	65.0	0.00645
## 1643	0	32.5	0.00645
## 1644	0	65.0	0.00645
## 1645	20	17.5	0.00645
## 1646	0	18.5	0.00645
## 1647	0	13.5	0.00645
## 1648	0	10.5	0.00645
## 1649	0	18.5	0.00645
## 1650	10	13.5	0.00645
## 1651	10	32.5	0.00645
## 1652	0	15.5	0.00645
## 1653	0	10.5	0.00645
## 1654	0	32.5	0.00645
## 1655	0	13.5	0.00645
## 1656	0	16.5	0.00645
## 1657	20	6.5	0.00645
## 1658	0	8.5	0.00645
## 1659	0	22.5	0.00645
## 1660	0	27.5	0.00645
## 1661	20	12.5	0.00645
## 1662	0	19.5	0.00645
## 1663	0	65.0	0.00645
## 1664	0	65.0	0.00645
## 1665	0	15.5	0.00645
## 1666	0	37.5	0.00645
## 1667	0	47.5	0.00645
## 1668	0	47.5	0.00645
## 1669	0	37.5	0.00645

## 1670	4	32.5	0.00645
## 1671	0	65.0	0.00645
## 1672	0	27.5	0.00645
## 1673	0	65.0	0.00645
## 1674	0	65.0	0.00645
## 1675	0	32.5	0.00645
## 1676	0	22.5	0.00645
## 1677	0	17.5	0.00645
## 1678	1	32.5	0.00645
## 1679	0	65.0	0.00645
## 1680	0	37.5	0.00645
## 1681	0	37.5	0.00645
## 1682	0	14.5	0.00645
## 1683	20	18.5	0.00645
## 1684	0	65.0	0.00645
## 1685	0	47.5	0.00645
## 1686	0	27.5	0.00645
## 1687	40	27.5	0.00645
## 1688	0	27.5	0.00645
## 1689	0	22.5	0.00645
## 1690	0	32.5	0.00645
## 1691	20	3.5	0.00645
## 1692	10	18.5	0.00645
## 1693	0	19.5	0.00645
## 1694	0	32.5	0.00645
## 1695	0	22.5	0.00645
## 1696	0	65.0	0.00645
## 1697	0	65.0	0.00645
## 1698	0	14.5	0.00645
## 1699	0	65.0	0.00645
## 1700	10	14.5	0.00645
## 1701	0	37.5	0.00645
## 1702	0	13.5	0.00645
## 1703	20	4.5	0.00645
## 1704	0	22.5	0.00645
## 1705	0	37.5	0.00645
## 1706	0	65.0	0.00645
## 1707	0	11.5	0.00645
## 1708	0	22.5	0.00645

## 1709	0	65.0	0.00645
## 1710	0	37.5	0.00645
## 1711	0	10.5	0.00645
## 1712	0	37.5	0.00645
## 1713	0	22.5	0.00645
## 1714	0	15.5	0.00645
## 1715	0	65.0	0.00645
## 1716	15	0.5	0.00645
## 1717	0	32.5	0.00645
## 1718	0	10.5	0.00645
## 1719	0	22.5	0.00645
## 1720	0	47.5	0.00645
## 1721	0	27.5	0.00645
## 1722	0	65.0	0.00645
## 1723	0	47.5	0.00645
## 1724	0	4.5	0.00645
## 1725	0	8.5	0.00645
## 1726	0	47.5	0.00645
## 1727	20	12.5	0.00645
## 1728	0	65.0	0.00645
## 1729	0	9.5	0.00645
## 1730	20	37.5	0.00645
## 1731	12	27.5	0.00645
## 1732	0	65.0	0.00645
## 1733	8	7.5	0.00645
## 1734	0	65.0	0.00645
## 1735	0	47.5	0.00645
## 1736	0	65.0	0.00645
## 1737	0	42.5	0.00645
## 1738	0	27.5	0.00645
## 1739	15	37.5	0.00645
## 1740	0	47.5	0.00645
## 1741	10	2.5	0.00645
## 1742	0	7.5	0.00645
## 1743	0	6.5	0.00645
## 1744	0	37.5	0.00645
## 1745	10	32.5	0.00645
## 1746	0	47.5	0.00645
## 1747	0	42.5	0.00645

## 1748	20	9.5	0.00645
## 1749	0	47.5	0.00645
## 1750	0	65.0	0.00645
## 1751	0	22.5	0.00645
## 1752	0	42.5	0.00645
## 1753	0	37.5	0.00645
## 1754	0	19.5	0.00645
## 1755	0	42.5	0.00645
## 1756	0	14.5	0.00645
## 1757	0	37.5	0.00645
## 1758	0	7.5	0.00645
## 1759	0	37.5	0.00645
## 1760	0	32.5	0.00645
## 1761	0	9.5	0.00645
## 1762	0	65.0	0.00645
## 1763	0	32.5	0.00645
## 1764	10	5.5	0.00645
## 1765	0	42.5	0.00645
## 1766	0	22.5	0.00645
## 1767	0	42.5	0.00645
## 1768	0	7.5	0.00645
## 1769	0	13.5	0.00645
## 1770	0	27.5	0.00645
## 1771	0	42.5	0.00645
## 1772	0	32.5	0.00645
## 1773	0	32.5	0.00645
## 1774	0	5.5	0.00645
## 1775	0	47.5	0.00645
## 1776	0	47.5	0.00645
## 1777	0	42.5	0.00645
## 1778	0	37.5	0.00645
## 1779	0	32.5	0.00645
## 1780	0	65.0	0.00645
## 1781	0	47.5	0.00645
## 1782	0	42.5	0.00645
## 1783	0	27.5	0.00645
## 1784	0	17.5	0.00645
## 1785	0	18.5	0.00645
## 1786	0	42.5	0.00645

## 1787	0	37.5	0.00645
## 1788	0	42.5	0.00645
## 1789	0	32.5	0.00645
## 1790	0	2.5	0.00645
## 1791	0	18.5	0.00645
## 1792	0	4.5	0.00645
## 1793	0	22.5	0.00645
## 1794	20	4.5	0.00645
## 1795	0	27.5	0.00645
## 1796	0	19.5	0.00645
## 1797	0	27.5	0.00645
## 1798	0	19.5	0.00645
## 1799	0	18.5	0.00645
## 1800	0	22.5	0.00645
## 1801	0	22.5	0.00645
## 1802	20	1.5	0.00645
## 1803	0	4.5	0.00645
## 1804	4	3.5	0.00645
## 1805	0	3.5	0.00645
## 1806	0	42.5	0.00645
## 1807	0	37.5	0.00645
## 1808	0	22.5	0.00645
## 1809	0	37.5	0.00645
## 1810	0	15.5	0.00645
## 1811	0	27.5	0.00645
## 1812	0	32.5	0.00645
## 1813	0	22.5	0.00645
## 1814	0	27.5	0.00645
## 1815	0	27.5	0.00645
## 1816	0	4.5	0.00645
## 1817	0	27.5	0.00645
## 1818	0	22.5	0.00645
## 1819	0	27.5	0.00645
## 1820	0	19.5	0.00645
## 1821	20	4.5	0.00645
## 1822	10	11.5	0.00645
## 1823	0	27.5	0.00645
## 1824	30	37.5	0.00645
## 1825	0	6.5	0.00645

## 1826	0	32.5	0.00645
## 1827	0	18.5	0.00645
## 1828	0	32.5	0.00645
## 1829	0	42.5	0.00645
## 1830	0	22.5	0.00645
## 1831	0	16.5	0.00645
## 1832	0	42.5	0.00645
## 1833	15	37.5	0.00645
## 1834	0	13.5	0.00645
## 1835	0	22.5	0.00645
## 1836	0	22.5	0.00645
## 1837	0	37.5	0.00645
## 1838	0	27.5	0.00645
## 1839	0	16.5	0.00645
## 1840	0	47.5	0.00645
## 1841	0	22.5	0.00645
## 1842	0	22.5	0.00645
## 1843	0	47.5	0.00645
## 1844	0	22.5	0.00645
## 1845	0	14.5	0.00645
## 1846	0	16.5	0.00645
## 1847	0	14.5	0.00645
## 1848	0	18.5	0.00645
## 1849	0	3.5	0.00645
## 1850	15	27.5	0.00645
## 1851	0	22.5	0.00645
## 1852	0	17.5	0.00645
## 1853	0	18.5	0.00645
## 1854	0	0.5	0.00645
## 1855	0	17.5	0.00645
## 1856	0	18.5	0.00645
## 1857	0	0.5	0.00645
## 1858	0	37.5	0.00645
## 1859	5	7.5	0.00645
## 1860	0	18.5	0.00645
## 1861	0	4.5	0.00645
## 1862	0	27.5	0.00645
## 1863	0	6.5	0.00645
## 1864	0	27.5	0.00645

## 1865	0	11.5	0.00645
## 1866	0	42.5	0.00645
## 1867	0	22.5	0.00645
## 1868	0	19.5	0.00645
## 1869	0	65.0	0.00645
## 1870	0	37.5	0.00645
## 1871	0	42.5	0.00645
## 1872	0	42.5	0.00645
## 1873	0	37.5	0.00645
## 1874	0	47.5	0.00645
## 1875	20	14.5	0.00645
## 1876	0	32.5	0.00645
## 1877	20	15.5	0.00645
## 1878	0	32.5	0.00645
## 1879	0	18.5	0.00645
## 1880	0	2.5	0.00645
## 1881	0	5.5	0.00645
## 1882	0	47.5	0.00645
## 1883	5	3.5	0.00645
## 1884	0	42.5	0.00645
## 1885	0	6.5	0.00645
## 1886	0	32.5	0.00645
## 1887	0	47.5	0.00645
## 1888	0	3.5	0.00645
## 1889	0	27.5	0.00645
## 1890	0	22.5	0.00645
## 1891	0	27.5	0.00645
## 1892	0	18.5	0.00645
## 1893	20	12.5	0.00645
## 1894	0	0.5	0.00645
## 1895	0	1.5	0.00645
## 1896	5	37.5	0.00645
## 1897	5	18.5	0.00645
## 1898	0	22.5	0.00645
## 1899	0	47.5	0.00645
## 1900	0	65.0	0.00645
## 1901	0	65.0	0.00645
## 1902	30	11.5	0.00645
## 1903	0	32.5	0.00645

## 1904	0	22.5	0.00645
## 1905	0	32.5	0.00645
## 1906	0	65.0	0.00645
## 1907	0	27.5	0.00645
## 1908	0	18.5	0.00645
## 1909	0	37.5	0.00645
## 1910	0	32.5	0.00645
## 1911	0	19.5	0.00645
## 1912	0	22.5	0.00645
## 1913	0	27.5	0.00645
## 1914	0	22.5	0.00645
## 1915	0	47.5	0.00645
## 1916	0	22.5	0.00645
## 1917	0	18.5	0.00645
## 1918	0	17.5	0.00645
## 1919	0	18.5	0.00645
## 1920	10	65.0	0.00645
## 1921	0	32.5	0.00645
## 1922	0	47.5	0.00645
## 1923	0	13.5	0.00645
## 1924	0	32.5	0.00645
## 1925	0	65.0	0.00645
## 1926	6	42.5	0.00645
## 1927	0	32.5	0.00645
## 1928	0	42.5	0.00645
## 1929	0	37.5	0.00645
## 1930	0	9.5	0.00645
## 1931	0	37.5	0.00645
## 1932	0	65.0	0.00645
## 1933	0	42.5	0.00645
## 1934	0	37.5	0.00645
## 1935	20	9.5	0.00645
## 1936	0	19.5	0.00645
## 1937	0	19.5	0.00645
## 1938	0	47.5	0.00645
## 1939	5	42.5	0.00645
## 1940	0	27.5	0.00645
## 1941	20	65.0	0.00645
## 1942	0	32.5	0.00645

##	1943	0	47.5	0.00645
##	1944	0	65.0	0.00645
##	1945	0	6.5	0.00645
##	1946	0	42.5	0.00645
##	1947	10	19.5	0.00645
##	1948	2	65.0	0.00645
##	1949	0	27.5	0.00645
##	1950	5	37.5	0.00645
##	1951	0	27.5	0.00645
##	1952	0	22.5	0.00645
##	1953	0	27.5	0.00645
##	1954	1	37.5	0.00645
##	1955	0	22.5	0.00645
##	1956	20	27.5	0.00645
##	1957	0	32.5	0.00645
##	1958	0	32.5	0.00645
##	1959	0	37.5	0.00645
##	1960	0	37.5	0.00645
##	1961	0	19.5	0.00645
##	1962	0	65.0	0.00645
##	1963	0	65.0	0.00645
##	1964	0	32.5	0.00645
##	1965	0	42.5	0.00645
##	1966	0	22.5	0.00645
##	1967	0	22.5	0.00645
##	1968	10	16.5	0.00645
##	1969	0	22.5	0.00645
##	1970	0	22.5	0.00645
##	1971	0	65.0	0.00645
##	1972	10	13.5	0.00645
##	1973	0	32.5	0.00645
##	1974	0	37.5	0.00645
##	1975	0	37.5	0.00645
##	1976	0	27.5	0.00645
##	1977	20	6.5	0.00645
##	1978	0	19.5	0.00645
##	1979	0	32.5	0.00645
##	1980	0	22.5	0.00645
##	1981	0	65.0	0.00645

## 1982	0	27.5	0.00645
## 1983	0	18.5	0.00645
## 1984	0	47.5	0.00645
## 1985	0	1.5	0.00645
## 1986	0	42.5	0.00645
## 1987	0	1.5	0.00645
## 1988	0	65.0	0.00645
## 1989	0	22.5	0.00645
## 1990	0	42.5	0.00645
## 1991	0	0.5	0.00645
## 1992	0	47.5	0.00645
## 1993	0	65.0	0.00645
## 1994	20	11.5	0.00645
## 1995	20	5.5	0.00645
## 1996	0	65.0	0.00645
## 1997	3	2.5	0.00645
## 1998	0	65.0	0.00645
## 1999	10	32.5	0.00645
## 2000	0	2.5	0.00645
## 2001	0	47.5	0.00645
## 2002	0	5.5	0.00645
## 2003	0	65.0	0.00645
## 2004	20	11.5	0.00645
## 2005	40	22.5	0.00645
## 2006	0	65.0	0.00645
## 2007	0	13.5	0.00645
## 2008	0	27.5	0.00645
## 2009	0	65.0	0.00645
## 2010	20	32.5	0.00645
## 2011	0	65.0	0.00645
## 2012	0	8.5	0.00645
## 2013	0	27.5	0.00645
## 2014	0	65.0	0.00645
## 2015	0	32.5	0.00645
## 2016	8	5.5	0.00645
## 2017	20	22.5	0.00645
## 2018	0	5.5	0.00645
## 2019	0	27.5	0.00645
## 2020	0	7.5	0.00645

##	2021	10	4.5	0.00645
##	2022	0	42.5	0.00645
##	2023	0	32.5	0.00645
##	2024	0	22.5	0.00645
##	2025	0	27.5	0.00645
##	2026	0	47.5	0.00645
##	2027	0	32.5	0.00645
##	2028	0	3.5	0.00645
##	2029	7	32.5	0.00645
##	2030	0	9.5	0.00645
##	2031	0	47.5	0.00645
##	2032	0	42.5	0.00645
##	2033	0	9.5	0.00645
##	2034	0	18.5	0.00645
##	2035	0	37.5	0.00645
##	2036	0	27.5	0.00645
##	2037	0	37.5	0.00645
##	2038	0	18.5	0.00645
##	2039	0	65.0	0.00645
##	2040	0	32.5	0.00645
##	2041	0	27.5	0.00645
##	2042	0	65.0	0.00645
##	2043	8	22.5	0.00645
##	2044	0	65.0	0.00645
##	2045	0	37.5	0.00645
##	2046	0	22.5	0.00645
##	2047	0	47.5	0.00645
##	2048	0	42.5	0.00645
##	2049	0	12.5	0.00645
##	2050	0	18.5	0.00645
##	2051	20	6.5	0.00645
##	2052	0	42.5	0.00645
##	2053	0	27.5	0.00645
##	2054	0	65.0	0.00645
##	2055	0	65.0	0.00645
##	2056	0	27.5	0.00645
##	2057	10	27.5	0.00645
##	2058	0	42.5	0.00645
##	2059	0	27.5	0.00645

##	2060	0	65.0	0.00645
##	2061	0	65.0	0.00645
##	2062	0	27.5	0.00645
##	2063	0	27.5	0.00645
##	2064	0	65.0	0.00645
##	2065	0	14.5	0.00645
##	2066	0	22.5	0.00645
##	2067	0	10.5	0.00645
##	2068	0	15.5	0.00645
##	2069	0	32.5	0.00645
##	2070	0	32.5	0.00645
##	2071	0	4.5	0.00645
##	2072	0	6.5	0.00645
##	2073	0	8.5	0.00645
##	2074	0	32.5	0.00645
##	2075	0	32.5	0.00645
##	2076	0	32.5	0.00645
##	2077	0	47.5	0.00645
##	2078	20	17.5	0.00645
##	2079	0	37.5	0.00645
##	2080	0	27.5	0.00645
##	2081	0	7.5	0.00645
##	2082	0	10.5	0.00645
##	2083	0	22.5	0.00645
##	2084	0	27.5	0.00645
##	2085	5	32.5	0.00645
##	2086	0	37.5	0.00645
##	2087	0	4.5	0.00645
##	2088	0	2.5	0.00645
##	2089	0	47.5	0.00645
##	2090	10	22.5	0.00645
##	2091	0	1.5	0.00645
##	2092	0	22.5	0.00645
##	2093	0	27.5	0.00645
##	2094	0	65.0	0.00645
##	2095	0	42.5	0.00645
##	2096	0	12.5	0.00645
##	2097	0	47.5	0.00645
##	2098	20	32.5	0.00645

##	2099	15	37.5	0.00645
##	2100	0	42.5	0.00645
##	2101	0	22.5	0.00645
##	2102	0	17.5	0.00645
##	2103	0	32.5	0.00645
##	2104	0	22.5	0.00645
##	2105	0	18.5	0.00645
##	2106	7	32.5	0.00645
##	2107	0	27.5	0.00645
##	2108	0	3.5	0.00645
##	2109	0	15.5	0.00645
##	2110	0	65.0	0.00645
##	2111	0	37.5	0.00645
##	2112	0	32.5	0.00645
##	2113	0	9.5	0.00645
##	2114	15	22.5	0.00645
##	2115	0	42.5	0.00645
##	2116	0	65.0	0.00645
##	2117	1	37.5	0.00645
##	2118	0	22.5	0.00645
##	2119	0	15.5	0.00645
##	2120	15	42.5	0.00645
##	2121	0	14.5	0.00645
##	2122	0	37.5	0.00645
##	2123	0	22.5	0.00645
##	2124	0	65.0	0.00645
##	2125	0	47.5	0.00645
##	2126	0	10.5	0.00645
##	2127	0	65.0	0.00645
##	2128	0	27.5	0.00645
##	2129	0	65.0	0.00645
##	2130	0	27.5	0.00645
##	2131	0	65.0	0.00645
##	2132	5	16.5	0.00645
##	2133	10	65.0	0.00645
##	2134	0	42.5	0.00645
##	2135	0	12.5	0.00645
##	2136	0	11.5	0.00645
##	2137	0	37.5	0.00645

##	2138	12	65.0	0.00645
##	2139	0	32.5	0.00645
##	2140	0	65.0	0.00645
##	2141	10	65.0	0.00645
##	2142	0	65.0	0.00645
##	2143	0	65.0	0.00645
##	2144	20	22.5	0.00645
##	2145	0	65.0	0.00645
##	2146	10	47.5	0.00645
##	2147	10	27.5	0.00645
##	2148	0	65.0	0.00645
##	2149	0	65.0	0.00645
##	2150	0	32.5	0.00645
##	2151	0	22.5	0.00645
##	2152	0	65.0	0.00645
##	2153	0	65.0	0.00645
##	2154	0	6.5	0.00645
##	2155	0	65.0	0.00645
##	2156	4	37.5	0.00645
##	2157	0	65.0	0.00645
##	2158	0	32.5	0.00645
##	2159	0	27.5	0.00645
##	2160	0	65.0	0.00645
##	2161	0	27.5	0.00645
##	2162	0	22.5	0.00645
##	2163	0	22.5	0.00645
##	2164	0	13.5	0.00645
##	2165	0	22.5	0.00645
##	2166	0	32.5	0.00645
##	2167	0	12.5	0.00645
##	2168	4	6.5	0.00645
##	2169	15	22.5	0.00645
##	2170	0	42.5	0.00645
##	2171	0	42.5	0.00645
##	2172	0	65.0	0.00645
##	2173	0	27.5	0.00645
##	2174	0	22.5	0.00645
##	2175	0	65.0	0.00645
##	2176	3	37.5	0.00645

##	2177	0	65.0	0.00645
##	2178	0	32.5	0.00645
##	2179	0	65.0	0.00645
##	2180	0	65.0	0.00645
##	2181	0	22.5	0.00645
##	2182	0	22.5	0.00645
##	2183	0	17.5	0.00645
##	2184	0	19.5	0.00645
##	2185	0	27.5	0.00645
##	2186	10	47.5	0.00645
##	2187	0	47.5	0.00645
##	2188	0	22.5	0.00645
##	2189	0	9.5	0.00645
##	2190	0	42.5	0.00645
##	2191	10	10.5	0.00645
##	2192	0	65.0	0.00645
##	2193	0	47.5	0.00645
##	2194	0	42.5	0.00645
##	2195	20	22.5	0.00645
##	2196	0	27.5	0.00645
##	2197	0	65.0	0.00645
##	2198	0	8.5	0.00645
##	2199	0	22.5	0.00645
##	2200	0	19.5	0.00645
##	2201	0	8.5	0.00645
##	2202	0	47.5	0.00645
##	2203	0	8.5	0.00645
##	2204	2	4.5	0.00645
##	2205	0	65.0	0.00645
##	2206	0	32.5	0.00645
##	2207	0	12.5	0.00645
##	2208	0	65.0	0.00645
##	2209	10	19.5	0.00645
##	2210	0	22.5	0.00645
##	2211	0	27.5	0.00645
##	2212	0	19.5	0.00645
##	2213	0	15.5	0.00645
##	2214	0	37.5	0.00645
##	2215	0	13.5	0.00645

##	2216	0	42.5	0.00645
##	2217	0	65.0	0.00645
##	2218	20	32.5	0.00645
##	2219	0	37.5	0.00645
##	2220	10	47.5	0.00645
##	2221	0	65.0	0.00645
##	2222	0	22.5	0.00645
##	2223	0	27.5	0.00645
##	2224	0	22.5	0.00645
##	2225	0	27.5	0.00645
##	2226	0	12.5	0.00645
##	2227	0	19.5	0.00645
##	2228	0	42.5	0.00645
##	2229	0	27.5	0.00645
##	2230	0	32.5	0.00645
##	2231	0	65.0	0.00645
##	2232	5	47.5	0.00645
##	2233	0	27.5	0.00645
##	2234	10	32.5	0.00645
##	2235	0	65.0	0.00645
##	2236	0	22.5	0.00645
##	2237	0	65.0	0.00645
##	2238	0	42.5	0.00645
##	2239	0	32.5	0.00645
##	2240	0	65.0	0.00645
##	2241	0	42.5	0.00645
##	2242	0	27.5	0.00645
##	2243	0	65.0	0.00645
##	2244	0	5.5	0.00645
##	2245	0	22.5	0.00645
##	2246	0	37.5	0.00645
##	2247	0	2.5	0.00645
##	2248	0	6.5	0.00645
##	2249	0	18.5	0.00645
##	2250	0	13.5	0.00645
##	2251	20	12.5	0.00645
##	2252	0	19.5	0.00645
##	2253	0	9.5	0.00645
##	2254	0	9.5	0.00645

##	2255	0	13.5	0.00645
##	2256	0	47.5	0.00645
##	2257	0	10.5	0.00645
##	2258	0	37.5	0.00645
##	2259	0	27.5	0.00645
##	2260	0	19.5	0.00645
##	2261	0	15.5	0.00645
##	2262	10	16.5	0.00645
##	2263	0	32.5	0.00645
##	2264	0	11.5	0.00645
##	2265	0	10.5	0.00645
##	2266	0	16.5	0.00645
##	2267	0	9.5	0.00645
##	2268	10	12.5	0.00645
##	2269	0	9.5	0.00645
##	2270	0	22.5	0.00645
##	2271	30	22.5	0.00645
##	2272	10	27.5	0.00645
##	2273	20	11.5	0.00645
##	2274	0	5.5	0.00645
##	2275	10	19.5	0.00645
##	2276	0	11.5	0.00645
##	2277	0	27.5	0.00645
##	2278	0	42.5	0.00645
##	2279	0	3.5	0.00645
##	2280	0	65.0	0.00645
##	2281	0	16.5	0.00645
##	2282	0	42.5	0.00645
##	2283	30	2.5	0.00645
##	2284	30	3.5	0.00645
##	2285	0	8.5	0.00645
##	2286	0	27.5	0.00645
##	2287	0	12.5	0.00645
##	2288	4	4.5	0.00645
##	2289	0	37.5	0.00645
##	2290	0	32.5	0.00645
##	2291	0	22.5	0.00645
##	2292	0	37.5	0.00645
##	2293	0	19.5	0.00645

##	2294	10	9.5	0.00645
##	2295	3	13.5	0.00645
##	2296	0	2.5	0.00645
##	2297	0	0.5	0.00645
##	2298	0	10.5	0.00645
##	2299	0	47.5	0.00645
##	2300	0	42.5	0.00645
##	2301	20	3.5	0.00645
##	2302	0	27.5	0.00645
##	2303	0	19.5	0.00645
##	2304	0	37.5	0.00645
##	2305	3	7.5	0.00645
##	2306	20	22.5	0.00645
##	2307	7	22.5	0.00645
##	2308	0	47.5	0.00645
##	2309	20	27.5	0.00645
##	2310	0	4.5	0.00645
##	2311	0	18.5	0.00645
##	2312	0	32.5	0.00645
##	2313	0	37.5	0.00645
##	2314	2	6.5	0.00645
##	2315	0	42.5	0.00645
##	2316	0	47.5	0.00645
##	2317	10	14.5	0.00645
##	2318	0	4.5	0.00645
##	2319	0	65.0	0.00645
##	2320	20	12.5	0.00645
##	2321	0	37.5	0.00645
##	2322	0	32.5	0.00645
##	2323	0	6.5	0.00645
##	2324	5	11.5	0.00645
##	2325	0	14.5	0.00645
##	2326	0	27.5	0.00645
##	2327	0	32.5	0.00645
##	2328	0	15.5	0.00645
##	2329	10	22.5	0.00645
##	2330	20	22.5	0.00645
##	2331	0	65.0	0.00645
##	2332	0	47.5	0.00645

##	2333	0	17.5	0.00645
##	2334	20	27.5	0.00645
##	2335	0	32.5	0.00645
##	2336	0	65.0	0.00645
##	2337	0	65.0	0.00645
##	2338	0	65.0	0.00645
##	2339	0	32.5	0.00645
##	2340	0	18.5	0.00645
##	2341	0	42.5	0.00645
##	2342	0	7.5	0.00645
##	2343	5	37.5	0.00645
##	2344	0	37.5	0.00645
##	2345	0	1.5	0.00645
##	2346	7	17.5	0.00645
##	2347	0	65.0	0.00645
##	2348	0	3.5	0.00645
##	2349	0	4.5	0.00645
##	2350	15	22.5	0.00645
##	2351	0	22.5	0.00645
##	2352	0	3.5	0.00645
##	2353	0	17.5	0.00645
##	2354	0	16.5	0.00645
##	2355	0	10.5	0.00645
##	2356	0	22.5	0.00645
##	2357	4	3.5	0.00645
##	2358	10	8.5	0.00645
##	2359	0	1.5	0.00645
##	2360	0	65.0	0.00645
##	2361	0	42.5	0.00645
##	2362	0	22.5	0.00645
##	2363	15	17.5	0.00645
##	2364	15	18.5	0.00645
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##	2366	0	13.5	0.00645
##	2367	0	17.5	0.00645
##	2368	10	19.5	0.00645
##	2369	0	65.0	0.00645
##	2370	0	11.5	0.00645
##	2371	0	65.0	0.00645

##	2372	0	2.5	0.00645
##	2373	0	65.0	0.00645
##	2374	20	10.5	0.00645
##	2375	0	42.5	0.00645
##	2376	0	19.5	0.00645
##	2377	0	5.5	0.00645
##	2378	0	0.5	0.00645
##	2379	0	65.0	0.00645
##	2380	0	47.5	0.00645
##	2381	0	14.5	0.00645
##	2382	0	27.5	0.00645
##	2383	20	22.5	0.00645
##	2384	20	19.5	0.00645
##	2385	0	15.5	0.00645
##	2386	10	0.5	0.00645
##	2387	0	47.5	0.00645
##	2388	0	22.5	0.00645
##	2389	0	15.5	0.00645
##	2390	10	17.5	0.00645
##	2391	0	47.5	0.00645
##	2392	0	15.5	0.00645
##	2393	0	18.5	0.00645
##	2394	10	2.5	0.00645
##	2395	0	18.5	0.00645
##	2396	0	27.5	0.00645
##	2397	0	32.5	0.00645
##	2398	15	19.5	0.00645
##	2399	15	32.5	0.00645
##	2400	0	22.5	0.00645
##	2401	0	19.5	0.00645
##	2402	0	6.5	0.00645
##	2403	0	27.5	0.00645
##	2404	0	10.5	0.00645
##	2405	0	47.5	0.00645
##	2406	0	19.5	0.00645
##	2407	0	22.5	0.00645
##	2408	20	15.5	0.00645
##	2409	0	8.5	0.00645
##	2410	5	19.5	0.00645

##	2411	0	1.5	0.00645
##	2412	6	14.5	0.00645
##	2413	0	27.5	0.00645
##	2414	20	5.5	0.00645
##	2415	0	5.5	0.00645
##	2416	0	14.5	0.00645
##	2417	0	32.5	0.00645
##	2418	0	22.5	0.00645
##	2419	0	22.5	0.00645
##	2420	0	27.5	0.00645
##	2421	10	27.5	0.00645
##	2422	0	13.5	0.00645
##	2423	0	22.5	0.00645
##	2424	0	22.5	0.00645
##	2425	0	65.0	0.00645
##	2426	0	19.5	0.00645
##	2427	0	37.5	0.00645
##	2428	0	32.5	0.00645
##	2429	0	11.5	0.00645
##	2430	0	27.5	0.00645
##	2431	20	17.5	0.00645
##	2432	0	37.5	0.00645
##	2433	0	10.5	0.00645
##	2434	0	32.5	0.00645
##	2435	0	37.5	0.00645
##	2436	0	32.5	0.00645
##	2437	0	37.5	0.00645
##	2438	10	2.5	0.00645
##	2439	0	15.5	0.00645
##	2440	0	42.5	0.00645
##	2441	0	22.5	0.00645
##	2442	0	22.5	0.00645
##	2443	0	2.5	0.00645
##	2444	0	32.5	0.00645
##	2445	0	32.5	0.00645
##	2446	0	18.5	0.00645
##	2447	0	27.5	0.00645
##	2448	0	2.5	0.00645
##	2449	20	6.5	0.00645

##	2450	0	37.5	0.00645
##	2451	0	65.0	0.00645
##	2452	0	47.5	0.00645
##	2453	0	42.5	0.00645
##	2454	0	27.5	0.00645
##	2455	0	32.5	0.00645
##	2456	20	42.5	0.00645
##	2457	0	17.5	0.00645
##	2458	0	42.5	0.00645
##	2459	10	19.5	0.00645
##	2460	0	32.5	0.00645
##	2461	0	42.5	0.00645
##	2462	20	14.5	0.00645
##	2463	0	15.5	0.00645
##	2464	0	32.5	0.00645
##	2465	0	37.5	0.00645
##	2466	0	6.5	0.00645
##	2467	0	32.5	0.00645
##	2468	0	42.5	0.00645
##	2469	20	27.5	0.00645
##	2470	0	65.0	0.00645
##	2471	0	65.0	0.00645
##	2472	0	27.5	0.00645
##	2473	0	32.5	0.00645
##	2474	0	32.5	0.00645
##	2475	0	37.5	0.00645
##	2476	10	18.5	0.00645
##	2477	0	22.5	0.00645
##	2478	6	42.5	0.00645
##	2479	0	27.5	0.00645
##	2480	0	37.5	0.00645
##	2481	0	11.5	0.00645
##	2482	0	18.5	0.00645
##	2483	0	3.5	0.00645
##	2484	0	18.5	0.00645
##	2485	0	13.5	0.00645
##	2486	0	22.5	0.00645
##	2487	0	65.0	0.00645
##	2488	0	22.5	0.00645

##	2489	0	16.5	0.00645
##	2490	0	27.5	0.00645
##	2491	0	42.5	0.00645
##	2492	2	3.5	0.00645
##	2493	0	22.5	0.00645
##	2494	0	19.5	0.00645
##	2495	0	12.5	0.00645
##	2496	20	9.5	0.00645
##	2497	10	4.5	0.00645
##	2498	0	27.5	0.00645
##	2499	0	47.5	0.00645
##	2500	0	22.5	0.00645
##	2501	0	9.5	0.00645
##	2502	0	65.0	0.00645
##	2503	0	7.5	0.00645
##	2504	0	65.0	0.00645
##	2505	0	4.5	0.00645
##	2506	0	27.5	0.00645
##	2507	0	19.5	0.00645
##	2508	0	6.5	0.00645
##	2509	0	16.5	0.00645
##	2510	0	65.0	0.00645
##	2511	0	22.5	0.00645
##	2512	0	2.5	0.00645
##	2513	0	22.5	0.00645
##	2514	0	32.5	0.00645
##	2515	0	9.5	0.00645
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##	2517	0	32.5	0.00645
##	2518	0	17.5	0.00645
##	2519	0	6.5	0.00645
##	2520	0	65.0	0.00645
##	2521	0	37.5	0.00645
##	2522	4	17.5	0.00645
##	2523	0	19.5	0.00645
##	2524	0	32.5	0.00645
##	2525	6	42.5	0.00645
##	2526	0	32.5	0.00645
##	2527	0	18.5	0.00645

##	2528	10	22.5	0.00645
##	2529	3	22.5	0.00645
##	2530	0	32.5	0.00645
##	2531	0	18.5	0.00645
##	2532	0	12.5	0.00645
##	2533	0	9.5	0.00645
##	2534	0	22.5	0.00645
##	2535	0	27.5	0.00645
##	2536	0	0.5	0.00645
##	2537	0	22.5	0.00645
##	2538	0	6.5	0.00645
##	2539	0	65.0	0.00645
##	2540	0	19.5	0.00645
##	2541	0	27.5	0.00645
##	2542	0	12.5	0.00645
##	2543	0	42.5	0.00645
##	2544	0	13.5	0.00645
##	2545	0	65.0	0.00645
##	2546	0	2.5	0.00645
##	2547	0	65.0	0.00645
##	2548	0	9.5	0.00645
##	2549	0	37.5	0.00645
##	2550	0	19.5	0.00645
##	2551	0	17.5	0.00645
##	2552	0	9.5	0.00645
##	2553	0	65.0	0.00645
##	2554	0	65.0	0.00645
##	2555	5	14.5	0.00645
##	2556	5	32.5	0.00645
##	2557	0	17.5	0.00645
##	2558	0	2.5	0.00645
##	2559	0	18.5	0.00645
##	2560	0	22.5	0.00645
##	2561	20	65.0	0.00645
##	2562	0	65.0	0.00645
##	2563	6	22.5	0.00645
##	2564	0	0.5	0.00645
##	2565	0	22.5	0.00645
##	2566	0	47.5	0.00645

##	2567	0	65.0	0.00645
##	2568	0	65.0	0.00645
##	2569	0	32.5	0.00645
##	2570	0	65.0	0.00645
##	2571	0	0.5	0.00645
##	2572	0	65.0	0.00645
##	2573	0	42.5	0.00645
##	2574	0	13.5	0.00645
##	2575	0	22.5	0.00645
##	2576	0	65.0	0.00645
##	2577	0	16.5	0.00645
##	2578	20	9.5	0.00645
##	2579	15	19.5	0.00645
##	2580	0	11.5	0.00645
##	2581	0	8.5	0.00645
##	2582	0	42.5	0.00645
##	2583	0	27.5	0.00645
##	2584	0	14.5	0.00645
##	2585	8	4.5	0.00645
##	2586	0	15.5	0.00645
##	2587	0	27.5	0.00645
##	2588	0	65.0	0.00645
##	2589	0	16.5	0.00645
##	2590	0	37.5	0.00645
##	2591	0	65.0	0.00645
##	2592	0	37.5	0.00645
##	2593	0	7.5	0.00645
##	2594	0	22.5	0.00645
##	2595	0	47.5	0.00645
##	2596	0	32.5	0.00645
##	2597	5	4.5	0.00645
##	2598	0	32.5	0.00645
##	2599	0	15.5	0.00645
##	2600	10	1.5	0.00645
##	2601	0	65.0	0.00645
##	2602	0	37.5	0.00645
##	2603	0	12.5	0.00645
##	2604	0	16.5	0.00645
##	2605	0	47.5	0.00645

##	2606	0	0.5	0.00645
##	2607	0	18.5	0.00645
##	2608	0	32.5	0.00645
##	2609	0	13.5	0.00645
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##	2611	0	47.5	0.00645
##	2612	0	32.5	0.00645
##	2613	0	22.5	0.00645
##	2614	0	65.0	0.00645
##	2615	0	9.5	0.00645
##	2616	0	65.0	0.00645
##	2617	15	8.5	0.00645
##	2618	0	9.5	0.00645
##	2619	0	22.5	0.00645
##	2620	0	22.5	0.00645
##	2621	12	65.0	0.00645
##	2622	0	22.5	0.00645
##	2623	10	22.5	0.00645
##	2624	0	10.5	0.00645
##	2625	0	2.5	0.00645
##	2626	0	9.5	0.00645
##	2627	0	4.5	0.00645
##	2628	46	0.5	0.00645
##	2629	0	32.5	0.00645
##	2630	0	47.5	0.00645
##	2631	0	5.5	0.00645
##	2632	0	17.5	0.00645
##	2633	20	10.5	0.00645
##	2634	0	12.5	0.00645
##	2635	0	9.5	0.00645
##	2636	5	22.5	0.00645
##	2637	0	32.5	0.00645
##	2638	0	22.5	0.00645
##	2639	0	8.5	0.00645
##	2640	0	1.5	0.00645
##	2641	0	32.5	0.00645
##	2642	0	15.5	0.00645
##	2643	0	37.5	0.00645
##	2644	0	47.5	0.00645

##	2645	0	65.0	0.00645
##	2646	0	27.5	0.00645
##	2647	0	27.5	0.00645
##	2648	0	65.0	0.00645
##	2649	0	32.5	0.00645
##	2650	0	7.5	0.00645
##	2651	0	4.5	0.00645
##	2652	40	22.5	0.00645
##	2653	0	8.5	0.00645
##	2654	0	6.5	0.00645
##	2655	0	27.5	0.00645
##	2656	0	18.5	0.00645
##	2657	0	27.5	0.00645
##	2658	0	27.5	0.00645
##	2659	0	22.5	0.00645
##	2660	0	27.5	0.00645
##	2661	0	19.5	0.00645
##	2662	0	27.5	0.00645
##	2663	0	37.5	0.00645
##	2664	20	6.5	0.00645
##	2665	0	32.5	0.00645
##	2666	0	15.5	0.00645
##	2667	0	27.5	0.00645
##	2668	12	42.5	0.00645
##	2669	0	32.5	0.00645
##	2670	0	47.5	0.00645
##	2671	0	16.5	0.00645
##	2672	0	42.5	0.00645
##	2673	0	5.5	0.00645
##	2674	0	22.5	0.00645
##	2675	0	65.0	0.00645
##	2676	10	27.5	0.00645
##	2677	0	42.5	0.00645
##	2678	0	32.5	0.00645
##	2679	20	4.5	0.00645
##	2680	5	12.5	0.00645
##	2681	0	65.0	0.00645
##	2682	0	65.0	0.00645
##	2683	0	22.5	0.00645

##	2684	0	32.5	0.00645
##	2685	0	65.0	0.00645
##	2686	0	65.0	0.00645
##	2687	0	8.5	0.00645
##	2688	0	47.5	0.00645
##	2689	0	3.5	0.00645
##	2690	0	22.5	0.00645
##	2691	0	65.0	0.00645
##	2692	50	27.5	0.00645
##	2693	0	65.0	0.00645
##	2694	0	10.5	0.00645
##	2695	0	65.0	0.00645
##	2696	0	19.5	0.00645
##	2697	0	22.5	0.00645
##	2698	0	18.5	0.00645
##	2699	0	19.5	0.00645
##	2700	0	22.5	0.00645
##	2701	0	16.5	0.00645
##	2702	0	65.0	0.00645
##	2703	0	65.0	0.00645
##	2704	20	22.5	0.00645
##	2705	0	32.5	0.00645
##	2706	0	42.5	0.00645
##	2707	0	6.5	0.00645
##	2708	0	27.5	0.00645
##	2709	0	14.5	0.00645
##	2710	0	32.5	0.00645
##	2711	5	65.0	0.00645
##	2712	0	15.5	0.00645
##	2713	15	22.5	0.00645
##	2714	0	32.5	0.00645
##	2715	0	6.5	0.00645
##	2716	0	15.5	0.00645
##	2717	0	27.5	0.00645
##	2718	0	17.5	0.00645
##	2719	0	37.5	0.00645
##	2720	10	22.5	0.00645
##	2721	9	4.5	0.00645
##	2722	0	18.5	0.00645

##	2723	0	22.5	0.00645
##	2724	0	37.5	0.00645
##	2725	15	5.5	0.00645
##	2726	0	16.5	0.00645
##	2727	0	17.5	0.00645
##	2728	0	6.5	0.00645
##	2729	0	6.5	0.00645
##	2730	0	32.5	0.00645
##	2731	0	22.5	0.00645
##	2732	0	15.5	0.00645
##	2733	10	6.5	0.00645
##	2734	0	27.5	0.00645
##	2735	0	42.5	0.00645
##	2736	15	9.5	0.00645
##	2737	20	32.5	0.00645
##	2738	0	22.5	0.00645
##	2739	0	4.5	0.00645
##	2740	0	27.5	0.00645
##	2741	0	37.5	0.00645
##	2742	0	8.5	0.00645
##	2743	0	27.5	0.00645
##	2744	0	47.5	0.00645
##	2745	0	32.5	0.00645
##	2746	0	27.5	0.00645
##	2747	0	6.5	0.00645
##	2748	3	12.5	0.00645
##	2749	0	32.5	0.00645
##	2750	10	5.5	0.00645
##	2751	0	22.5	0.00645
##	2752	0	10.5	0.00645
##	2753	0	32.5	0.00645
##	2754	0	32.5	0.00645
##	2755	0	27.5	0.00645
##	2756	15	12.5	0.00645
##	2757	0	8.5	0.00645
##	2758	0	42.5	0.00645
##	2759	0	4.5	0.00645
##	2760	0	37.5	0.00645
##	2761	0	18.5	0.00645

```
## 2762    0  42.5 0.00645
## 2763    0  42.5 0.00645
## 2764   20  17.5 0.00645
## 2765    0  47.5 0.00645
## 2766    0  22.5 0.00645
## 2767    0  15.5 0.00645
## 2768    0   1.5 0.00645
## 2769    0   5.5 0.00645
## 2770    0  12.5 0.00645
## 2771    0  22.5 0.00645
## 2772    0  27.5 0.00645
## 2773    0   5.5 0.00645
## 2774    0  65.0 0.00645
## 2775    0  27.5 0.00645
## 2776    0  37.5 0.00645
```

```
marginalEffects(bwght.lm1, slope = 'dyex')
```

##	rowid	type	term	contrast	dydx	std.error	statistic
## 1	1	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 2	2	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 3	3	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 4	4	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 5	5	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 6	6	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 7	7	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 8	8	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 9	9	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 10	10	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 11	11	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 12	12	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 13	13	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 14	14	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 15	15	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 16	16	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 17	17	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 18	18	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 19	19	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 20	20 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 21	21 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 22	22 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 23	23 response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
## 24	24 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 25	25 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 26	26 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 27	27 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 28	28 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 29	29 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 30	30 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 31	31 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 32	32 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 33	33 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 34	34 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 35	35 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 36	36 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 37	37 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 38	38 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 39	39 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 40	40 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 41	41 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 42	42 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 43	43 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 44	44 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 45	45 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 46	46 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 47	47 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 48	48 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 49	49 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 50	50 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 51	51 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 52	52 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 53	53 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 54	54 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 55	55 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 56	56 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 57	57 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 58	58 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 59	59 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 60	60 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 61	61 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 62	62 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 63	63 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 64	64 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 65	65 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 66	66 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 67	67 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 68	68 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 69	69 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 70	70 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 71	71 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 72	72 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 73	73 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 74	74 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 75	75 response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
## 76	76 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 77	77 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 78	78 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 79	79 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 80	80 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 81	81 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 82	82 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 83	83 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 84	84 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 85	85 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 86	86 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 87	87 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 88	88 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 89	89 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 90	90 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 91	91 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 92	92 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 93	93 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 94	94 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 95	95 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 96	96 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 97	97 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 98	98 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 99	99 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 100	100 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 101	101 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 102	102 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 103	103 response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
## 104	104 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 105	105 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 106	106 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 107	107 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 108	108 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 109	109 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 110	110 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 111	111 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 112	112 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 113	113 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 114	114 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 115	115 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 116	116 response	cigs	dY/eX	-9.26815080	1.83153652	-5.060315
## 117	117 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 118	118 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 119	119 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 120	120 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 121	121 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 122	122 response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
## 123	123 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 124	124 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 125	125 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 126	126 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 127	127 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 128	128 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 129	129 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 130	130 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 131	131 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 132	132 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 133	133 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 134	134 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 135	135 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 136	136 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 137	137	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 138	138	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 139	139	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 140	140	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 141	141	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 142	142	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 143	143	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 144	144	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 145	145	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 146	146	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 147	147	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 148	148	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 149	149	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 150	150	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 151	151	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 152	152	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 153	153	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 154	154	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 155	155	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 156	156	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 157	157	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 158	158	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 159	159	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 160	160	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 161	161	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 162	162	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 163	163	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 164	164	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 165	165	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 166	166	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 167	167	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 168	168	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 169	169	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 170	170	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 171	171	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 172	172	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 173	173	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 174	174	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 175	175	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 176	176	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 177	177	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 178	178	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 179	179	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 180	180	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 181	181	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 182	182	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 183	183	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 184	184	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 185	185	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 186	186	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 187	187	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 188	188	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 189	189	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 190	190	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 191	191	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 192	192	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 193	193	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 194	194	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 195	195	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 196	196	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 197	197	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 198	198	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 199	199	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 200	200	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 201	201	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 202	202	response	cigs	dY/eX	-3.70726032	0.73261458	-5.060315
## 203	203	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 204	204	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 205	205	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 206	206	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 207	207	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 208	208	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 209	209	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 210	210	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 211	211	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 212	212	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 213	213	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 214	214	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 215	215	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 216	216	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 217	217	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 218	218	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 219	219	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 220	220	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 221	221	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 222	222	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 223	223	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 224	224	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 225	225	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 226	226	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 227	227	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 228	228	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 229	229	response	cigs	dY/eX	-5.56089048	1.09892185	-5.060315
## 230	230	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 231	231	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 232	232	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 233	233	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 234	234	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 235	235	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 236	236	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 237	237	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 238	238	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 239	239	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 240	240	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 241	241	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 242	242	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 243	243	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 244	244	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 245	245	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 246	246	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 247	247	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 248	248	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 249	249	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 250	250	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 251	251	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 252	252	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 253	253	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 254	254	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 255	255	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 256	256	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 257	257	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 258	258	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 259	259	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 260	260	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 261	261	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 262	262	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 263	263	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 264	264	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 265	265	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 266	266	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 267	267	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 268	268	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 269	269	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 270	270	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 271	271	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 272	272	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 273	273	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 274	274	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 275	275	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 276	276	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 277	277	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 278	278	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 279	279	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 280	280	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 281	281	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 282	282	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 283	283	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 284	284	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 285	285	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 286	286	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 287	287	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 288	288	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 289	289	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 290	290	response	cigs	dY/eX	-0.46340754	0.09157682	-5.060315
## 291	291	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 292	292	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 293	293	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 294	294	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 295	295	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 296	296	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 297	297	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 298	298	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 299	299	response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
## 300	300	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 301	301	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 302	302	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 303	303	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 304	304	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 305	305	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 306	306	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 307	307	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 308	308	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 309	309	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 310	310	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 311	311	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 312	312	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 313	313	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 314	314	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 315	315	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 316	316	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 317	317	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 318	318	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 319	319	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 320	320	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 321	321	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 322	322	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 323	323	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 324	324	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 325	325	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 326	326	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 327	327	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 328	328	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 329	329	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 330	330	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 331	331	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 332	332 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 333	333 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 334	334 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 335	335 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 336	336 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 337	337 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 338	338 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 339	339 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 340	340 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 341	341 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 342	342 response	cigs	dY/eX	-9.26815080	1.83153652	-5.060315
## 343	343 response	cigs	dY/eX	-5.56089048	1.09892185	-5.060315
## 344	344 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 345	345 response	cigs	dY/eX	-3.70726032	0.73261458	-5.060315
## 346	346 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 347	347 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 348	348 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 349	349 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 350	350 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 351	351 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 352	352 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 353	353 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 354	354 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 355	355 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 356	356 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 357	357 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 358	358 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 359	359 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 360	360 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 361	361 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 362	362 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 363	363 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 364	364 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 365	365 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 366	366 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 367	367 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 368	368 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 369	369 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 370	370 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 371	371 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 372	372 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 373	373 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 374	374 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 375	375 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 376	376 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 377	377 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 378	378 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 379	379 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 380	380 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 381	381 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 382	382 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 383	383 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 384	384 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 385	385 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 386	386 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 387	387 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 388	388 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 389	389 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 390	390 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 391	391 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 392	392 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 393	393 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 394	394 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 395	395 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 396	396 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 397	397 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 398	398 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 399	399 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 400	400 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 401	401 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 402	402 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 403	403 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 404	404 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 405	405 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 406	406 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 407	407 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 408	408 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 409	409 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 410	410	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 411	411	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 412	412	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 413	413	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 414	414	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 415	415	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 416	416	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 417	417	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 418	418	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 419	419	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 420	420	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 421	421	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 422	422	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 423	423	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 424	424	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 425	425	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 426	426	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 427	427	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 428	428	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 429	429	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 430	430	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 431	431	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 432	432	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 433	433	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 434	434	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 435	435	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 436	436	response	cigs	dY/eX	-13.90222621	2.74730476	-5.060315
## 437	437	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 438	438	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 439	439	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 440	440	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 441	441	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 442	442	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 443	443	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 444	444	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 445	445	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 446	446	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 447	447	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 448	448	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 449	449	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 450	450	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 451	451	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 452	452	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 453	453	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 454	454	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 455	455	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 456	456	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 457	457	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 458	458	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 459	459	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 460	460	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 461	461	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 462	462	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 463	463	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 464	464	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 465	465	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 466	466	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 467	467	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 468	468	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 469	469	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 470	470	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 471	471	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 472	472	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 473	473	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 474	474	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 475	475	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 476	476	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 477	477	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 478	478	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 479	479	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 480	480	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 481	481	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 482	482	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 483	483	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 484	484	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 485	485	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 486	486	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 487	487	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315

## 488	488	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 489	489	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 490	490	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 491	491	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 492	492	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 493	493	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 494	494	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 495	495	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 496	496	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 497	497	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 498	498	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 499	499	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 500	500	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 501	501	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 502	502	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 503	503	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 504	504	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 505	505	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 506	506	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 507	507	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 508	508	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 509	509	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 510	510	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 511	511	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 512	512	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 513	513	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 514	514	response	cigs	dY/eX	-13.90222621	2.74730477	-5.060315
## 515	515	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 516	516	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 517	517	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 518	518	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 519	519	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 520	520	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 521	521	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 522	522	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 523	523	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 524	524	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 525	525	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 526	526	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 527	527 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 528	528 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 529	529 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 530	530 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 531	531 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 532	532 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 533	533 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 534	534 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 535	535 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 536	536 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 537	537 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 538	538 response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
## 539	539 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 540	540 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 541	541 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 542	542 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 543	543 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 544	544 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 545	545 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 546	546 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 547	547 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 548	548 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 549	549 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 550	550 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 551	551 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 552	552 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 553	553 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 554	554 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 555	555 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 556	556 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 557	557 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 558	558 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 559	559 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 560	560 response	cigs	dY/eX	-0.92681508	0.18315365	-5.060315
## 561	561 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 562	562 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 563	563 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 564	564 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 565	565 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 566	566 response	cigs	dY/eX	-0.46340754	0.09157682	-5.060315
## 567	567 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 568	568 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 569	569 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 570	570 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 571	571 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 572	572 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 573	573 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 574	574 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 575	575 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 576	576 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 577	577 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 578	578 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 579	579 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 580	580 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 581	581 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 582	582 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 583	583 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 584	584 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 585	585 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 586	586 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 587	587 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 588	588 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 589	589 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 590	590 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 591	591 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 592	592 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 593	593 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 594	594 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 595	595 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 596	596 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 597	597 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 598	598 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 599	599 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 600	600 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 601	601 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 602	602 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 603	603 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 604	604 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 605	605	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 606	606	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 607	607	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 608	608	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 609	609	response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
## 610	610	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 611	611	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 612	612	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 613	613	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 614	614	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 615	615	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 616	616	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 617	617	response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
## 618	618	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 619	619	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 620	620	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 621	621	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 622	622	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 623	623	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 624	624	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 625	625	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 626	626	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 627	627	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 628	628	response	cigs	dY/eX	-3.70726032	0.73261458	-5.060315
## 629	629	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 630	630	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 631	631	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 632	632	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 633	633	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 634	634	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 635	635	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 636	636	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 637	637	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 638	638	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 639	639	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 640	640	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 641	641	response	cigs	dY/eX	-3.24385278	0.64103776	-5.060315
## 642	642	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 643	643	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 644	644	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 645	645	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 646	646	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 647	647	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 648	648	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 649	649	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 650	650	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 651	651	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 652	652	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 653	653	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 654	654	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 655	655	response	cigs	dY/eX	-3.70726032	0.73261458	-5.060315
## 656	656	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 657	657	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 658	658	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 659	659	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 660	660	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 661	661	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 662	662	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 663	663	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 664	664	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 665	665	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 666	666	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 667	667	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 668	668	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 669	669	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 670	670	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 671	671	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 672	672	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 673	673	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 674	674	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 675	675	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 676	676	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 677	677	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 678	678	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 679	679	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 680	680	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 681	681	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 682	682	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 683	683 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 684	684 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 685	685 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 686	686 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 687	687 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 688	688 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 689	689 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 690	690 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 691	691 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 692	692 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 693	693 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 694	694 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 695	695 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 696	696 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 697	697 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 698	698 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 699	699 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 700	700 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 701	701 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 702	702 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 703	703 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 704	704 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 705	705 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 706	706 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 707	707 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 708	708 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 709	709 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 710	710 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 711	711 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 712	712 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 713	713 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 714	714 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 715	715 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 716	716 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 717	717 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 718	718 response	cigs	dY/eX	-3.24385278	0.64103776	-5.060315
## 719	719 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 720	720 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 721	721 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 722	722 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 723	723 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 724	724 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 725	725 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 726	726 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 727	727 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 728	728 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 729	729 response	cigs	dY/eX	-0.46340754	0.09157682	-5.060315
## 730	730 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 731	731 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 732	732 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 733	733 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 734	734 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 735	735 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 736	736 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 737	737 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 738	738 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 739	739 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 740	740 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 741	741 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 742	742 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 743	743 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 744	744 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 745	745 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 746	746 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 747	747 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 748	748 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 749	749 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 750	750 response	cigs	dY/eX	-5.56089048	1.09892185	-5.060315
## 751	751 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 752	752 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 753	753 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 754	754 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 755	755 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 756	756 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 757	757 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 758	758 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 759	759 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 760	760 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 761	761 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 762	762 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 763	763 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 764	764 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 765	765 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 766	766 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 767	767 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 768	768 response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 769	769 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 770	770 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 771	771 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 772	772 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 773	773 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 774	774 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 775	775 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 776	776 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 777	777 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 778	778 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 779	779 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 780	780 response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 781	781 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 782	782 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 783	783 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 784	784 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 785	785 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 786	786 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 787	787 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 788	788 response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
## 789	789 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 790	790 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 791	791 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 792	792 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 793	793 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 794	794 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 795	795 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 796	796 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 797	797 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 798	798 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 799	799 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 800	800	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 801	801	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 802	802	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 803	803	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 804	804	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 805	805	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 806	806	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 807	807	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 808	808	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 809	809	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 810	810	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 811	811	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 812	812	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 813	813	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 814	814	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 815	815	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 816	816	response	cigs	dY/eX	-0.92681508	0.18315365	-5.060315
## 817	817	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 818	818	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 819	819	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 820	820	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 821	821	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 822	822	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 823	823	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 824	824	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 825	825	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 826	826	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 827	827	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 828	828	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 829	829	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 830	830	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 831	831	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 832	832	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 833	833	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 834	834	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 835	835	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 836	836	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 837	837	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 838	838	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 839	839	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 840	840	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 841	841	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 842	842	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 843	843	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 844	844	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 845	845	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 846	846	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 847	847	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 848	848	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 849	849	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 850	850	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 851	851	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 852	852	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 853	853	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 854	854	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 855	855	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 856	856	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 857	857	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 858	858	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 859	859	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 860	860	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 861	861	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 862	862	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 863	863	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 864	864	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 865	865	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 866	866	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 867	867	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 868	868	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 869	869	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 870	870	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 871	871	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 872	872	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 873	873	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 874	874	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 875	875	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 876	876	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 877	877	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 878	878	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 879	879	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 880	880	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 881	881	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 882	882	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 883	883	response	cigs	dY/eX	-13.90222621	2.74730477	-5.060315
## 884	884	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 885	885	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 886	886	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 887	887	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 888	888	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 889	889	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 890	890	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 891	891	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 892	892	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 893	893	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 894	894	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 895	895	response	cigs	dY/eX	-13.90222621	2.74730477	-5.060315
## 896	896	response	cigs	dY/eX	-13.90222621	2.74730477	-5.060315
## 897	897	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 898	898	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 899	899	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 900	900	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 901	901	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 902	902	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 903	903	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 904	904	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 905	905	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 906	906	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 907	907	response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
## 908	908	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 909	909	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 910	910	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 911	911	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 912	912	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 913	913	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 914	914	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 915	915	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 916	916	response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 917	917 response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
## 918	918 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 919	919 response	cigs	dY/eX	-3.24385278	0.64103776	-5.060315
## 920	920 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 921	921 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 922	922 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 923	923 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 924	924 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 925	925 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 926	926 response	cigs	dY/eX	-0.92681508	0.18315365	-5.060315
## 927	927 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 928	928 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 929	929 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 930	930 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 931	931 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 932	932 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 933	933 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 934	934 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 935	935 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 936	936 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 937	937 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 938	938 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 939	939 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 940	940 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 941	941 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 942	942 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 943	943 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 944	944 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 945	945 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 946	946 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 947	947 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 948	948 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 949	949 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 950	950 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 951	951 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 952	952 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 953	953 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 954	954 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 955	955 response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315

## 956	956 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 957	957 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 958	958 response	cigs	dY/eX	-3.24385278	0.64103776	-5.060315
## 959	959 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 960	960 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 961	961 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 962	962 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 963	963 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 964	964 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 965	965 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 966	966 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 967	967 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 968	968 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 969	969 response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
## 970	970 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 971	971 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 972	972 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 973	973 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 974	974 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 975	975 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 976	976 response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 977	977 response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
## 978	978 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 979	979 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 980	980 response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 981	981 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 982	982 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 983	983 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 984	984 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 985	985 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 986	986 response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 987	987 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 988	988 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 989	989 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 990	990 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 991	991 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 992	992 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 993	993 response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 994	994 response	cigs	dY/eX	0.00000000	0.00000000	NaN

## 995	995	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 996	996	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 997	997	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 998	998	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 999	999	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1000	1000	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1001	1001	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1002	1002	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 1003	1003	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1004	1004	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1005	1005	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1006	1006	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
## 1007	1007	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1008	1008	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1009	1009	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1010	1010	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 1011	1011	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
## 1012	1012	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1013	1013	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1014	1014	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1015	1015	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1016	1016	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1017	1017	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1018	1018	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1019	1019	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1020	1020	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 1021	1021	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1022	1022	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
## 1023	1023	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1024	1024	response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
## 1025	1025	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1026	1026	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
## 1027	1027	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1028	1028	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1029	1029	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1030	1030	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1031	1031	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1032	1032	response	cigs	dY/eX	0.00000000	0.00000000	NaN
## 1033	1033	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315

##	1034	1034	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1035	1035	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1036	1036	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1037	1037	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1038	1038	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1039	1039	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1040	1040	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1041	1041	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1042	1042	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1043	1043	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1044	1044	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1045	1045	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1046	1046	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1047	1047	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1048	1048	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1049	1049	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1050	1050	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1051	1051	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1052	1052	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1053	1053	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1054	1054	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1055	1055	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1056	1056	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1057	1057	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1058	1058	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1059	1059	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1060	1060	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1061	1061	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1062	1062	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1063	1063	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1064	1064	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1065	1065	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1066	1066	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1067	1067	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1068	1068	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1069	1069	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1070	1070	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1071	1071	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1072	1072	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1073	1073	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1074	1074	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1075	1075	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1076	1076	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1077	1077	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1078	1078	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1079	1079	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1080	1080	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1081	1081	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1082	1082	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1083	1083	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1084	1084	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1085	1085	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1086	1086	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1087	1087	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1088	1088	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1089	1089	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1090	1090	response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
##	1091	1091	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1092	1092	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1093	1093	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1094	1094	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1095	1095	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1096	1096	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1097	1097	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1098	1098	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1099	1099	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1100	1100	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1101	1101	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1102	1102	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1103	1103	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1104	1104	response	cigs	dY/eX	-0.92681508	0.18315365	-5.060315
##	1105	1105	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1106	1106	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1107	1107	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1108	1108	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1109	1109	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1110	1110	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1111	1111	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1112	1112	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1113	1113	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1114	1114	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1115	1115	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1116	1116	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1117	1117	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1118	1118	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1119	1119	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1120	1120	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1121	1121	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1122	1122	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1123	1123	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1124	1124	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1125	1125	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1126	1126	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1127	1127	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1128	1128	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1129	1129	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1130	1130	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1131	1131	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1132	1132	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1133	1133	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1134	1134	response	cigs	dY/eX	-1.85363016	0.36630729	-5.060315
##	1135	1135	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1136	1136	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1137	1137	response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
##	1138	1138	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1139	1139	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1140	1140	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1141	1141	response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
##	1142	1142	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1143	1143	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1144	1144	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1145	1145	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1146	1146	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1147	1147	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1148	1148	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1149	1149	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1150	1150	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1151	1151	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1152	1152	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1153	1153	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1154	1154	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1155	1155	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1156	1156	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1157	1157	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1158	1158	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1159	1159	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1160	1160	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1161	1161	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1162	1162	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1163	1163	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1164	1164	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1165	1165	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1166	1166	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1167	1167	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1168	1168	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1169	1169	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1170	1170	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1171	1171	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1172	1172	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1173	1173	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1174	1174	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1175	1175	response	cigs	dY/eX	-2.78044524	0.54946095	-5.060315
##	1176	1176	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1177	1177	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1178	1178	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1179	1179	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1180	1180	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1181	1181	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1182	1182	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1183	1183	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1184	1184	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1185	1185	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1186	1186	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1187	1187	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1188	1188	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1189	1189	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1190	1190	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1191	1191	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1192	1192	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1193	1193	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1194	1194	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1195	1195	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1196	1196	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1197	1197	response	cigs	dY/eX	-3.70726032	0.73261458	-5.060315
##	1198	1198	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1199	1199	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1200	1200	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1201	1201	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1202	1202	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1203	1203	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1204	1204	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1205	1205	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1206	1206	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1207	1207	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1208	1208	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1209	1209	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1210	1210	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1211	1211	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1212	1212	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1213	1213	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1214	1214	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1215	1215	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1216	1216	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1217	1217	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1218	1218	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1219	1219	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1220	1220	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1221	1221	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1222	1222	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1223	1223	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1224	1224	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1225	1225	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1226	1226	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1227	1227	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1228	1228	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1229	1229	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1230	1230	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1231	1231	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1232	1232	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1233	1233	response	cigs	dY/eX	-5.56089048	1.09892185	-5.060315
##	1234	1234	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1235	1235	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1236	1236	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1237	1237	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1238	1238	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1239	1239	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1240	1240	response	cigs	dY/eX	-21.31674685	4.21253386	-5.060315
##	1241	1241	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1242	1242	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1243	1243	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1244	1244	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1245	1245	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1246	1246	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1247	1247	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1248	1248	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1249	1249	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1250	1250	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1251	1251	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1252	1252	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1253	1253	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1254	1254	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1255	1255	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1256	1256	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1257	1257	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1258	1258	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1259	1259	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1260	1260	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1261	1261	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1262	1262	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1263	1263	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1264	1264	response	cigs	dY/eX	-18.53630161	3.66307282	-5.060315
##	1265	1265	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1266	1266	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1267	1267	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1268	1268	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1269	1269	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1270	1270	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1271	1271	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1272	1272	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1273	1273	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1274	1274	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1275	1275	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1276	1276	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1277	1277	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1278	1278	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1279	1279	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1280	1280	response	cigs	dY/eX	-5.56089048	1.09892185	-5.060315
##	1281	1281	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1282	1282	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1283	1283	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1284	1284	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1285	1285	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1286	1286	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1287	1287	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1288	1288	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1289	1289	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1290	1290	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1291	1291	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1292	1292	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1293	1293	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1294	1294	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1295	1295	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1296	1296	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1297	1297	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1298	1298	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1299	1299	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1300	1300	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1301	1301	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1302	1302	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1303	1303	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1304	1304	response	cigs	dY/eX	-23.17037701	4.57884115	-5.060315
##	1305	1305	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1306	1306	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1307	1307	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1308	1308	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1309	1309	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1310	1310	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1311	1311	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1312	1312	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1313	1313	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1314	1314	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1315	1315	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1316	1316	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1317	1317	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1318	1318	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1319	1319	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1320	1320	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1321	1321	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1322	1322	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1323	1323	response	cigs	dY/eX	-2.31703770	0.45788412	-5.060315
##	1324	1324	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1325	1325	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1326	1326	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1327	1327	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1328	1328	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1329	1329	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1330	1330	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1331	1331	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1332	1332	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1333	1333	response	cigs	dY/eX	-4.17066786	0.82419143	-5.060315
##	1334	1334	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1335	1335	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1336	1336	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1337	1337	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1338	1338	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1339	1339	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1340	1340	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1341	1341	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1342	1342	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1343	1343	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1344	1344	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1345	1345	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315

##	1346	1346	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1347	1347	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1348	1348	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1349	1349	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1350	1350	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1351	1351	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1352	1352	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1353	1353	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1354	1354	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1355	1355	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1356	1356	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1357	1357	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1358	1358	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1359	1359	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1360	1360	response	cigs	dY/eX	-1.39022262	0.27473047	-5.060315
##	1361	1361	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1362	1362	response	cigs	dY/eX	-4.63407540	0.91576823	-5.060315
##	1363	1363	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1364	1364	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1365	1365	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1366	1366	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1367	1367	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1368	1368	response	cigs	dY/eX	-6.95111310	1.37365231	-5.060315
##	1369	1369	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1370	1370	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1371	1371	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1372	1372	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1373	1373	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1374	1374	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1375	1375	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1376	1376	response	cigs	dY/eX	-9.26815080	1.83153651	-5.060315
##	1377	1377	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1378	1378	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1379	1379	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1380	1380	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1381	1381	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1382	1382	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1383	1383	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1384	1384	response	cigs	dY/eX	0.00000000	0.00000000	NaN

##	1385	1385	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1386	1386	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1387	1387	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1388	1388	response	cigs	dY/eX	0.00000000	0.00000000	NaN
##	1389	1	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	1390	2	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
##	1391	3	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	1392	4	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	1393	5	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1394	6	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
##	1395	7	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	1396	8	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1397	9	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1398	10	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	1399	11	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1400	12	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1401	13	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	1402	14	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	1403	15	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	1404	16	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	1405	17	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	1406	18	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	1407	19	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	1408	20	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	1409	21	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	1410	22	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	1411	23	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	1412	24	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	1413	25	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	1414	26	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	1415	27	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	1416	28	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	1417	29	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	1418	30	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	1419	31	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	1420	32	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	1421	33	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	1422	34	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	1423	35	response	faminc	dY/eX	0.69573554	0.21890902	3.178195

## 1424	36 response faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1425	37 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1426	38 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1427	39 response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1428	40 response faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1429	41 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1430	42 response faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1431	43 response faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1432	44 response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1433	45 response faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1434	46 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1435	47 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1436	48 response faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1437	49 response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1438	50 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1439	51 response faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1440	52 response faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1441	53 response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1442	54 response faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1443	55 response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1444	56 response faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1445	57 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1446	58 response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1447	59 response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1448	60 response faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1449	61 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1450	62 response faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1451	63 response faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1452	64 response faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1453	65 response faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1454	66 response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1455	67 response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1456	68 response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1457	69 response faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1458	70 response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1459	71 response faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1460	72 response faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1461	73 response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1462	74 response faminc	dY/eX	2.55103031	0.80266639	3.178195

## 1463	75	response faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1464	76	response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1465	77	response faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1466	78	response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1467	79	response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1468	80	response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1469	81	response faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1470	82	response faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1471	83	response faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1472	84	response faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1473	85	response faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1474	86	response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1475	87	response faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1476	88	response faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1477	89	response faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1478	90	response faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1479	91	response faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1480	92	response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1481	93	response faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1482	94	response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1483	95	response faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1484	96	response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1485	97	response faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1486	98	response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1487	99	response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1488	100	response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1489	101	response faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1490	102	response faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1491	103	response faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1492	104	response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1493	105	response faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1494	106	response faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1495	107	response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1496	108	response faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1497	109	response faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1498	110	response faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1499	111	response faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1500	112	response faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1501	113	response faminc	dY/eX	3.47867769	1.09454508	3.178195

## 1502	114	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1503	115	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1504	116	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1505	117	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1506	118	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1507	119	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1508	120	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1509	121	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1510	122	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1511	123	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1512	124	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1513	125	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1514	126	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1515	127	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1516	128	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1517	129	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1518	130	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1519	131	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1520	132	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1521	133	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 1522	134	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1523	135	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1524	136	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1525	137	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1526	138	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1527	139	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1528	140	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1529	141	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1530	142	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1531	143	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1532	144	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1533	145	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1534	146	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1535	147	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1536	148	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1537	149	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1538	150	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1539	151	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1540	152	response	faminc	dY/eX	2.08720661	0.65672704	3.178195

## 1541	153	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1542	154	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1543	155	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1544	156	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1545	157	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1546	158	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1547	159	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1548	160	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1549	161	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1550	162	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1551	163	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1552	164	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1553	165	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1554	166	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1555	167	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1556	168	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1557	169	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1558	170	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1559	171	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1560	172	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1561	173	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1562	174	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1563	175	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1564	176	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1565	177	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1566	178	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1567	179	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1568	180	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1569	181	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1570	182	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1571	183	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1572	184	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1573	185	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1574	186	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1575	187	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1576	188	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1577	189	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1578	190	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1579	191	response	faminc	dY/eX	3.01485400	0.94860574	3.178195

## 1580	192	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1581	193	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1582	194	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1583	195	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1584	196	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1585	197	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1586	198	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1587	199	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1588	200	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1589	201	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1590	202	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1591	203	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1592	204	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1593	205	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1594	206	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1595	207	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1596	208	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1597	209	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1598	210	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1599	211	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1600	212	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1601	213	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1602	214	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1603	215	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1604	216	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1605	217	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1606	218	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1607	219	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1608	220	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1609	221	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1610	222	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1611	223	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1612	224	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1613	225	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1614	226	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1615	227	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1616	228	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1617	229	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1618	230	response	faminc	dY/eX	3.01485400	0.94860574	3.178195

## 1619	231	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1620	232	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1621	233	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1622	234	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1623	235	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1624	236	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1625	237	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1626	238	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1627	239	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1628	240	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1629	241	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1630	242	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1631	243	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1632	244	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1633	245	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1634	246	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1635	247	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1636	248	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1637	249	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1638	250	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1639	251	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1640	252	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1641	253	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1642	254	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1643	255	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1644	256	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1645	257	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1646	258	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1647	259	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1648	260	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1649	261	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1650	262	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1651	263	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1652	264	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1653	265	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1654	266	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1655	267	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1656	268	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1657	269	response	faminc	dY/eX	0.60297080	0.18972115	3.178195

## 1658	270	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1659	271	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1660	272	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1661	273	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1662	274	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1663	275	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1664	276	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1665	277	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1666	278	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1667	279	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1668	280	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1669	281	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1670	282	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1671	283	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1672	284	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1673	285	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1674	286	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1675	287	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1676	288	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1677	289	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1678	290	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1679	291	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1680	292	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1681	293	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1682	294	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1683	295	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1684	296	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1685	297	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1686	298	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1687	299	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1688	300	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1689	301	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1690	302	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1691	303	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1692	304	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1693	305	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1694	306	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1695	307	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1696	308	response	faminc	dY/eX	6.02970799	1.89721148	3.178195

## 1697	309	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1698	310	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1699	311	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1700	312	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1701	313	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1702	314	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1703	315	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1704	316	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1705	317	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1706	318	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1707	319	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1708	320	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1709	321	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1710	322	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1711	323	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1712	324	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1713	325	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1714	326	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1715	327	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1716	328	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1717	329	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1718	330	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 1719	331	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1720	332	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1721	333	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1722	334	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1723	335	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1724	336	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1725	337	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 1726	338	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1727	339	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1728	340	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1729	341	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1730	342	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1731	343	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1732	344	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1733	345	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1734	346	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1735	347	response	faminc	dY/eX	4.40632507	1.38642377	3.178195

## 1736	348	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1737	349	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1738	350	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1739	351	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1740	352	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1741	353	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 1742	354	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1743	355	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1744	356	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1745	357	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1746	358	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1747	359	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1748	360	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1749	361	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1750	362	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1751	363	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1752	364	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1753	365	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1754	366	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1755	367	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1756	368	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1757	369	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1758	370	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1759	371	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1760	372	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1761	373	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1762	374	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1763	375	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1764	376	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1765	377	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1766	378	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1767	379	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1768	380	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1769	381	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1770	382	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1771	383	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1772	384	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1773	385	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1774	386	response	faminc	dY/eX	0.51020606	0.16053328	3.178195

## 1775	387	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1776	388	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1777	389	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1778	390	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1779	391	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1780	392	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1781	393	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1782	394	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1783	395	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1784	396	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1785	397	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1786	398	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1787	399	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1788	400	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1789	401	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1790	402	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 1791	403	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1792	404	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1793	405	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1794	406	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1795	407	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1796	408	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1797	409	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1798	410	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1799	411	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1800	412	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1801	413	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1802	414	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1803	415	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1804	416	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1805	417	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1806	418	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1807	419	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1808	420	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1809	421	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1810	422	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1811	423	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1812	424	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1813	425	response	faminc	dY/eX	2.08720661	0.65672704	3.178195

## 1814	426	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1815	427	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1816	428	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1817	429	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1818	430	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1819	431	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1820	432	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1821	433	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1822	434	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1823	435	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1824	436	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 1825	437	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1826	438	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1827	439	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1828	440	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1829	441	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1830	442	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1831	443	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1832	444	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1833	445	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1834	446	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1835	447	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1836	448	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1837	449	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1838	450	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1839	451	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1840	452	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1841	453	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1842	454	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1843	455	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1844	456	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1845	457	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1846	458	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1847	459	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1848	460	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1849	461	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1850	462	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1851	463	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1852	464	response	faminc	dY/eX	1.62338292	0.51078772	3.178195

## 1853	465	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1854	466	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1855	467	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1856	468	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1857	469	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1858	470	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1859	471	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 1860	472	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1861	473	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 1862	474	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1863	475	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1864	476	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1865	477	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1866	478	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1867	479	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1868	480	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1869	481	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1870	482	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1871	483	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1872	484	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1873	485	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1874	486	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1875	487	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 1876	488	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1877	489	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 1878	490	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1879	491	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1880	492	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 1881	493	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1882	494	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1883	495	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1884	496	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1885	497	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1886	498	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1887	499	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1888	500	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 1889	501	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1890	502	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1891	503	response	faminc	dY/eX	2.55103031	0.80266639	3.178195

## 1892	504	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1893	505	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 1894	506	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1895	507	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1896	508	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 1897	509	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1898	510	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1899	511	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1900	512	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1901	513	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1902	514	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1903	515	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1904	516	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1905	517	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1906	518	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1907	519	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1908	520	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1909	521	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1910	522	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1911	523	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1912	524	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1913	525	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1914	526	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1915	527	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1916	528	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1917	529	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1918	530	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 1919	531	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1920	532	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
## 1921	533	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1922	534	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1923	535	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1924	536	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1925	537	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1926	538	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1927	539	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1928	540	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1929	541	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1930	542	response	faminc	dY/eX	0.88126501	0.27728475	3.178195

## 1931	543	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1932	544	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1933	545	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1934	546	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1935	547	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 1936	548	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1937	549	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1938	550	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1939	551	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1940	552	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1941	553	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1942	554	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1943	555	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1944	556	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1945	557	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1946	558	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1947	559	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1948	560	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
## 1949	561	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1950	562	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 1951	563	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1952	564	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1953	565	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1954	566	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1955	567	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1956	568	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1957	569	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1958	570	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1959	571	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1960	572	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1961	573	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1962	574	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1963	575	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1964	576	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1965	577	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1966	578	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1967	579	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1968	580	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 1969	581	response	faminc	dY/eX	2.08720661	0.65672704	3.178195

## 1970	582	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1971	583	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1972	584	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 1973	585	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1974	586	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1975	587	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 1976	588	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1977	589	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 1978	590	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 1979	591	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 1980	592	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1981	593	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1982	594	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 1983	595	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 1984	596	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1985	597	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1986	598	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1987	599	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 1988	600	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1989	601	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 1990	602	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 1991	603	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
## 1992	604	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 1993	605	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1994	606	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 1995	607	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 1996	608	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1997	609	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 1998	610	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 1999	611	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2000	612	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 2001	613	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2002	614	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 2003	615	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2004	616	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2005	617	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2006	618	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2007	619	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 2008	620	response	faminc	dY/eX	2.55103031	0.80266639	3.178195

## 2009	621	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2010	622	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2011	623	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2012	624	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 2013	625	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2014	626	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2015	627	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2016	628	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 2017	629	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2018	630	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 2019	631	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2020	632	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 2021	633	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 2022	634	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2023	635	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2024	636	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2025	637	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2026	638	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2027	639	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2028	640	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2029	641	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2030	642	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2031	643	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2032	644	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2033	645	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2034	646	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2035	647	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2036	648	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2037	649	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2038	650	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2039	651	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2040	652	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2041	653	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2042	654	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2043	655	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2044	656	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2045	657	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2046	658	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2047	659	response	faminc	dY/eX	4.40632507	1.38642377	3.178195

## 2048	660	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2049	661	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2050	662	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2051	663	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2052	664	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2053	665	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2054	666	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2055	667	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2056	668	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2057	669	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2058	670	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2059	671	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2060	672	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2061	673	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2062	674	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2063	675	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2064	676	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2065	677	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 2066	678	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2067	679	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2068	680	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 2069	681	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2070	682	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2071	683	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 2072	684	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2073	685	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 2074	686	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2075	687	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2076	688	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2077	689	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2078	690	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2079	691	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2080	692	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2081	693	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 2082	694	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2083	695	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2084	696	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2085	697	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2086	698	response	faminc	dY/eX	3.47867769	1.09454508	3.178195

## 2087	699	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 2088	700	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 2089	701	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2090	702	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2091	703	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 2092	704	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2093	705	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2094	706	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2095	707	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2096	708	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2097	709	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2098	710	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2099	711	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2100	712	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2101	713	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2102	714	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2103	715	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2104	716	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2105	717	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2106	718	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2107	719	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2108	720	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2109	721	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 2110	722	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2111	723	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2112	724	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2113	725	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2114	726	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2115	727	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2116	728	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2117	729	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2118	730	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2119	731	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 2120	732	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2121	733	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 2122	734	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2123	735	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2124	736	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2125	737	response	faminc	dY/eX	4.40632507	1.38642377	3.178195

## 2126	738	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2127	739	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2128	740	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2129	741	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2130	742	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2131	743	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2132	744	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 2133	745	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
## 2134	746	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2135	747	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2136	748	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2137	749	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2138	750	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
## 2139	751	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2140	752	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2141	753	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
## 2142	754	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2143	755	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2144	756	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2145	757	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2146	758	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2147	759	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2148	760	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2149	761	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2150	762	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2151	763	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2152	764	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2153	765	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2154	766	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2155	767	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2156	768	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 2157	769	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2158	770	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2159	771	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2160	772	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2161	773	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2162	774	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2163	775	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2164	776	response	faminc	dY/eX	1.25232397	0.39403623	3.178195

## 2165	777	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2166	778	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2167	779	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2168	780	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2169	781	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2170	782	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2171	783	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2172	784	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2173	785	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2174	786	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2175	787	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2176	788	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 2177	789	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2178	790	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2179	791	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2180	792	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2181	793	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2182	794	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2183	795	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2184	796	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 2185	797	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2186	798	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2187	799	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2188	800	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2189	801	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2190	802	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2191	803	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2192	804	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2193	805	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2194	806	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2195	807	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2196	808	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2197	809	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2198	810	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 2199	811	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2200	812	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 2201	813	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 2202	814	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2203	815	response	faminc	dY/eX	0.78850028	0.24809689	3.178195

##	2204	816	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2205	817	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2206	818	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2207	819	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2208	820	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2209	821	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2210	822	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2211	823	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2212	824	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2213	825	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2214	826	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2215	827	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2216	828	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2217	829	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2218	830	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2219	831	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2220	832	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2221	833	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2222	834	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2223	835	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2224	836	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2225	837	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2226	838	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2227	839	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2228	840	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2229	841	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2230	842	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2231	843	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2232	844	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2233	845	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2234	846	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2235	847	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2236	848	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2237	849	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2238	850	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2239	851	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2240	852	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2241	853	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2242	854	response	faminc	dY/eX	2.55103031	0.80266639	3.178195

## 2243	855	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2244	856	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 2245	857	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2246	858	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2247	859	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
## 2248	860	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2249	861	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2250	862	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 2251	863	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2252	864	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 2253	865	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2254	866	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2255	867	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
## 2256	868	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2257	869	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2258	870	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2259	871	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2260	872	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 2261	873	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 2262	874	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 2263	875	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2264	876	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2265	877	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2266	878	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 2267	879	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2268	880	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
## 2269	881	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
## 2270	882	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2271	883	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2272	884	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2273	885	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2274	886	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
## 2275	887	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
## 2276	888	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2277	889	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2278	890	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2279	891	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2280	892	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2281	893	response	faminc	dY/eX	1.53061818	0.48159983	3.178195

##	2282	894	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2283	895	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2284	896	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
##	2285	897	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2286	898	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2287	899	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2288	900	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2289	901	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2290	902	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2291	903	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2292	904	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2293	905	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2294	906	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2295	907	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2296	908	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2297	909	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2298	910	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2299	911	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2300	912	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2301	913	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
##	2302	914	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2303	915	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2304	916	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2305	917	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
##	2306	918	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2307	919	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2308	920	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2309	921	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2310	922	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2311	923	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2312	924	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2313	925	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2314	926	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2315	927	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2316	928	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2317	929	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2318	930	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2319	931	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2320	932	response	faminc	dY/eX	1.15955923	0.36484836	3.178195

## 2321	933	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2322	934	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2323	935	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
## 2324	936	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
## 2325	937	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
## 2326	938	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2327	939	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2328	940	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
## 2329	941	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2330	942	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2331	943	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2332	944	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
## 2333	945	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2334	946	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
## 2335	947	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2336	948	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2337	949	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2338	950	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2339	951	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
## 2340	952	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
## 2341	953	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
## 2342	954	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
## 2343	955	response	faminc	dY/eX	3.47867769	1.09454506	3.178195
## 2344	956	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
## 2345	957	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
## 2346	958	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2347	959	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
## 2348	960	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2349	961	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
## 2350	962	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2351	963	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2352	964	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2353	965	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
## 2354	966	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
## 2355	967	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
## 2356	968	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
## 2357	969	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
## 2358	970	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
## 2359	971	response	faminc	dY/eX	0.13914711	0.04378180	3.178195

##	2360	972	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2361	973	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2362	974	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2363	975	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2364	976	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2365	977	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2366	978	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2367	979	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2368	980	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2369	981	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2370	982	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
##	2371	983	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2372	984	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2373	985	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2374	986	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2375	987	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2376	988	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2377	989	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2378	990	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2379	991	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2380	992	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2381	993	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2382	994	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2383	995	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2384	996	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2385	997	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2386	998	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2387	999	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2388	1000	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2389	1001	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2390	1002	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2391	1003	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2392	1004	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2393	1005	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2394	1006	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2395	1007	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2396	1008	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2397	1009	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2398	1010	response	faminc	dY/eX	1.80891240	0.56916346	3.178195

##	2399	1011	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2400	1012	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2401	1013	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2402	1014	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2403	1015	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2404	1016	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2405	1017	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2406	1018	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2407	1019	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2408	1020	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2409	1021	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2410	1022	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2411	1023	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
##	2412	1024	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2413	1025	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2414	1026	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2415	1027	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2416	1028	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2417	1029	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2418	1030	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2419	1031	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2420	1032	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2421	1033	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2422	1034	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2423	1035	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2424	1036	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2425	1037	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2426	1038	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2427	1039	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2428	1040	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2429	1041	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
##	2430	1042	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2431	1043	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2432	1044	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2433	1045	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2434	1046	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2435	1047	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2436	1048	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2437	1049	response	faminc	dY/eX	3.47867769	1.09454508	3.178195

##	2438	1050	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2439	1051	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2440	1052	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2441	1053	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2442	1054	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2443	1055	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2444	1056	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2445	1057	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2446	1058	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2447	1059	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2448	1060	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2449	1061	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2450	1062	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2451	1063	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2452	1064	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2453	1065	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2454	1066	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2455	1067	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2456	1068	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2457	1069	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2458	1070	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2459	1071	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2460	1072	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2461	1073	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2462	1074	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2463	1075	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2464	1076	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2465	1077	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2466	1078	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2467	1079	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2468	1080	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2469	1081	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2470	1082	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2471	1083	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2472	1084	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2473	1085	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2474	1086	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2475	1087	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2476	1088	response	faminc	dY/eX	1.71614766	0.53997559	3.178195

##	2477	1089	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2478	1090	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2479	1091	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2480	1092	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2481	1093	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
##	2482	1094	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2483	1095	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
##	2484	1096	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2485	1097	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2486	1098	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2487	1099	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2488	1100	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2489	1101	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2490	1102	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2491	1103	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2492	1104	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
##	2493	1105	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2494	1106	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2495	1107	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2496	1108	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2497	1109	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2498	1110	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2499	1111	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2500	1112	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2501	1113	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2502	1114	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2503	1115	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
##	2504	1116	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2505	1117	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2506	1118	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2507	1119	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2508	1120	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2509	1121	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2510	1122	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2511	1123	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2512	1124	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2513	1125	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2514	1126	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2515	1127	response	faminc	dY/eX	0.88126501	0.27728475	3.178195

##	2516	1128	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2517	1129	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2518	1130	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2519	1131	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2520	1132	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2521	1133	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2522	1134	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2523	1135	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2524	1136	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2525	1137	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2526	1138	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2527	1139	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2528	1140	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2529	1141	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2530	1142	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2531	1143	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2532	1144	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2533	1145	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2534	1146	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2535	1147	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2536	1148	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2537	1149	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2538	1150	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2539	1151	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2540	1152	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2541	1153	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2542	1154	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2543	1155	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2544	1156	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2545	1157	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2546	1158	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2547	1159	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2548	1160	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2549	1161	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2550	1162	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2551	1163	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2552	1164	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2553	1165	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2554	1166	response	faminc	dY/eX	6.02970799	1.89721148	3.178195

##	2555	1167	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2556	1168	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2557	1169	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2558	1170	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2559	1171	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2560	1172	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2561	1173	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2562	1174	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2563	1175	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2564	1176	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2565	1177	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2566	1178	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2567	1179	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2568	1180	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2569	1181	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2570	1182	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2571	1183	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2572	1184	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2573	1185	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2574	1186	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2575	1187	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2576	1188	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2577	1189	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2578	1190	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2579	1191	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2580	1192	response	faminc	dY/eX	1.06679449	0.33566049	3.178195
##	2581	1193	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2582	1194	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2583	1195	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2584	1196	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2585	1197	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2586	1198	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2587	1199	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2588	1200	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2589	1201	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2590	1202	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2591	1203	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2592	1204	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2593	1205	response	faminc	dY/eX	0.69573554	0.21890902	3.178195

##	2594	1206	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2595	1207	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2596	1208	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2597	1209	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2598	1210	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2599	1211	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2600	1212	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
##	2601	1213	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2602	1214	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2603	1215	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2604	1216	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2605	1217	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2606	1218	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2607	1219	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2608	1220	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2609	1221	response	faminc	dY/eX	1.25232397	0.39403623	3.178195
##	2610	1222	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2611	1223	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2612	1224	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2613	1225	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2614	1226	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2615	1227	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2616	1228	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2617	1229	response	faminc	dY/eX	0.78850028	0.24809688	3.178195
##	2618	1230	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2619	1231	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2620	1232	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2621	1233	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
##	2622	1234	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2623	1235	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2624	1236	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2625	1237	response	faminc	dY/eX	0.23191185	0.07296967	3.178195
##	2626	1238	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2627	1239	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2628	1240	response	faminc	dY/eX	0.04638237	0.01459393	3.178195
##	2629	1241	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2630	1242	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2631	1243	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2632	1244	response	faminc	dY/eX	1.62338292	0.51078772	3.178195

##	2633	1245	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2634	1246	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2635	1247	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2636	1248	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2637	1249	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2638	1250	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2639	1251	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2640	1252	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
##	2641	1253	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2642	1254	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2643	1255	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2644	1256	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2645	1257	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2646	1258	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2647	1259	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2648	1260	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2649	1261	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2650	1262	response	faminc	dY/eX	0.69573554	0.21890902	3.178195
##	2651	1263	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2652	1264	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2653	1265	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2654	1266	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2655	1267	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2656	1268	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2657	1269	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2658	1270	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2659	1271	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2660	1272	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2661	1273	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2662	1274	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2663	1275	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2664	1276	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2665	1277	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2666	1278	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2667	1279	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2668	1280	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2669	1281	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2670	1282	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2671	1283	response	faminc	dY/eX	1.53061818	0.48159983	3.178195

##	2672	1284	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2673	1285	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2674	1286	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2675	1287	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2676	1288	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2677	1289	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2678	1290	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2679	1291	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2680	1292	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2681	1293	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2682	1294	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2683	1295	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2684	1296	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2685	1297	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2686	1298	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2687	1299	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2688	1300	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2689	1301	response	faminc	dY/eX	0.32467658	0.10215754	3.178195
##	2690	1302	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2691	1303	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2692	1304	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2693	1305	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2694	1306	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2695	1307	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2696	1308	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2697	1309	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2698	1310	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2699	1311	response	faminc	dY/eX	1.80891240	0.56916346	3.178195
##	2700	1312	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2701	1313	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2702	1314	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2703	1315	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2704	1316	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2705	1317	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2706	1318	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2707	1319	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2708	1320	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2709	1321	response	faminc	dY/eX	1.34508871	0.42322410	3.178195
##	2710	1322	response	faminc	dY/eX	3.01485400	0.94860574	3.178195

##	2711	1323	response	faminc	dY/eX	6.02970799	1.89721152	3.178195
##	2712	1324	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2713	1325	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2714	1326	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2715	1327	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2716	1328	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2717	1329	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2718	1330	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2719	1331	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2720	1332	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2721	1333	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2722	1334	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2723	1335	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2724	1336	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2725	1337	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2726	1338	response	faminc	dY/eX	1.53061818	0.48159983	3.178195
##	2727	1339	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2728	1340	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2729	1341	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2730	1342	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2731	1343	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2732	1344	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2733	1345	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2734	1346	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2735	1347	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2736	1348	response	faminc	dY/eX	0.88126501	0.27728475	3.178195
##	2737	1349	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2738	1350	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2739	1351	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2740	1352	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2741	1353	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2742	1354	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2743	1355	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2744	1356	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2745	1357	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2746	1358	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2747	1359	response	faminc	dY/eX	0.60297080	0.18972115	3.178195
##	2748	1360	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2749	1361	response	faminc	dY/eX	3.01485400	0.94860574	3.178195

##	2750	1362	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2751	1363	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2752	1364	response	faminc	dY/eX	0.97402975	0.30647262	3.178195
##	2753	1365	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2754	1366	response	faminc	dY/eX	3.01485400	0.94860574	3.178195
##	2755	1367	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2756	1368	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2757	1369	response	faminc	dY/eX	0.78850028	0.24809689	3.178195
##	2758	1370	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2759	1371	response	faminc	dY/eX	0.41744132	0.13134541	3.178195
##	2760	1372	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##	2761	1373	response	faminc	dY/eX	1.71614766	0.53997559	3.178195
##	2762	1374	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2763	1375	response	faminc	dY/eX	3.94250138	1.24048445	3.178195
##	2764	1376	response	faminc	dY/eX	1.62338292	0.51078772	3.178195
##	2765	1377	response	faminc	dY/eX	4.40632507	1.38642377	3.178195
##	2766	1378	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2767	1379	response	faminc	dY/eX	1.43785344	0.45241196	3.178195
##	2768	1380	response	faminc	dY/eX	0.13914711	0.04378180	3.178195
##	2769	1381	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2770	1382	response	faminc	dY/eX	1.15955923	0.36484836	3.178195
##	2771	1383	response	faminc	dY/eX	2.08720661	0.65672704	3.178195
##	2772	1384	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2773	1385	response	faminc	dY/eX	0.51020606	0.16053328	3.178195
##	2774	1386	response	faminc	dY/eX	6.02970799	1.89721148	3.178195
##	2775	1387	response	faminc	dY/eX	2.55103031	0.80266639	3.178195
##	2776	1388	response	faminc	dY/eX	3.47867769	1.09454508	3.178195
##			p.value	conf.low	conf.high	predicted_lo	predicted_hi	bwght
##	1		NaN	0.00000000	0.00000000	118.22645	118.22414	109
##	2		NaN	0.00000000	0.00000000	117.66987	117.66755	133
##	3		NaN	0.00000000	0.00000000	117.02051	117.01820	129
##	4		NaN	0.00000000	0.00000000	118.41198	118.40967	126
##	5		NaN	0.00000000	0.00000000	119.52516	119.52284	134
##	6		NaN	0.00000000	0.00000000	117.66987	117.66755	118
##	7		NaN	0.00000000	0.00000000	123.00384	123.00152	140
##	8		NaN	0.00000000	0.00000000	119.52516	119.52284	86
##	9		NaN	0.00000000	0.00000000	119.52516	119.52284	121
##	10		NaN	0.00000000	0.00000000	120.45281	120.45049	129
##	11		NaN	0.00000000	0.00000000	119.52516	119.52284	101

## 12	NaN	0.00000000	0.00000000	119.52516	119.52284	133
## 13	NaN	0.00000000	0.00000000	117.57710	117.57478	61
## 14	NaN	0.00000000	0.00000000	117.94816	117.94584	104
## 15	NaN	0.00000000	0.00000000	118.13369	118.13137	92
## 16	NaN	0.00000000	0.00000000	118.59751	118.59520	122
## 17	NaN	0.00000000	0.00000000	120.91663	120.91431	159
## 18	NaN	0.00000000	0.00000000	117.39157	117.38925	154
## 19	NaN	0.00000000	0.00000000	119.98898	119.98667	120
## 20	NaN	0.00000000	0.00000000	117.57710	117.57478	138
## 21	NaN	0.00000000	0.00000000	121.38046	121.37814	127
## 22	NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 23	4.185655e-07	-3.85736892	-1.70352156	115.63154	115.62922	129
## 24	NaN	0.00000000	0.00000000	118.22645	118.22414	129
## 25	NaN	0.00000000	0.00000000	120.45281	120.45049	156
## 26	NaN	0.00000000	0.00000000	117.20604	117.20373	124
## 27	NaN	0.00000000	0.00000000	117.20604	117.20373	79
## 28	NaN	0.00000000	0.00000000	119.98898	119.98667	112
## 29	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 30	NaN	0.00000000	0.00000000	117.02051	117.01820	134
## 31	NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 32	NaN	0.00000000	0.00000000	123.00384	123.00152	124
## 33	NaN	0.00000000	0.00000000	123.00384	123.00152	122
## 34	NaN	0.00000000	0.00000000	119.52516	119.52284	104
## 35	NaN	0.00000000	0.00000000	117.66987	117.66755	105
## 36	NaN	0.00000000	0.00000000	121.38046	121.37814	113
## 37	NaN	0.00000000	0.00000000	123.00384	123.00152	131
## 38	NaN	0.00000000	0.00000000	123.00384	123.00152	107
## 39	NaN	0.00000000	0.00000000	119.98898	119.98667	115
## 40	NaN	0.00000000	0.00000000	118.22645	118.22414	97
## 41	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 42	NaN	0.00000000	0.00000000	121.38046	121.37814	132
## 43	NaN	0.00000000	0.00000000	120.45281	120.45049	108
## 44	NaN	0.00000000	0.00000000	119.98898	119.98667	114
## 45	NaN	0.00000000	0.00000000	118.69028	118.68796	134
## 46	NaN	0.00000000	0.00000000	123.00384	123.00152	134
## 47	NaN	0.00000000	0.00000000	123.00384	123.00152	141
## 48	NaN	0.00000000	0.00000000	118.04092	118.03861	84
## 49	NaN	0.00000000	0.00000000	119.98898	119.98667	88
## 50	NaN	0.00000000	0.00000000	123.00384	123.00152	130

## 51		NaN	0.00000000	0.00000000	118.59751	118.59520	132
## 52		NaN	0.00000000	0.00000000	118.50475	118.50243	133
## 53		NaN	0.00000000	0.00000000	119.06134	119.05902	108
## 54		NaN	0.00000000	0.00000000	120.91663	120.91431	92
## 55		NaN	0.00000000	0.00000000	119.98898	119.98667	127
## 56		NaN	0.00000000	0.00000000	118.04092	118.03861	131
## 57		NaN	0.00000000	0.00000000	123.00384	123.00152	104
## 58		NaN	0.00000000	0.00000000	119.52516	119.52284	122
## 59		NaN	0.00000000	0.00000000	119.52516	119.52284	97
## 60		NaN	0.00000000	0.00000000	118.59751	118.59520	122
## 61		NaN	0.00000000	0.00000000	123.00384	123.00152	118
## 62		NaN	0.00000000	0.00000000	117.29881	117.29649	140
## 63		NaN	0.00000000	0.00000000	117.02051	117.01820	131
## 64	4.185651e-07	-6.42894815	-2.83920265	112.38644	112.38412	104	
## 65		NaN	0.00000000	0.00000000	117.29881	117.29649	114
## 66		NaN	0.00000000	0.00000000	123.00384	123.00152	141
## 67		NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 68		NaN	0.00000000	0.00000000	119.06134	119.05902	152
## 69	4.185655e-07	-12.85789641	-5.67840520	108.40172	108.39940	119	
## 70		NaN	0.00000000	0.00000000	119.52516	119.52284	135
## 71		NaN	0.00000000	0.00000000	118.69028	118.68796	138
## 72		NaN	0.00000000	0.00000000	120.45281	120.45049	108
## 73		NaN	0.00000000	0.00000000	119.06134	119.05902	97
## 74		NaN	0.00000000	0.00000000	119.52516	119.52284	131
## 75	4.185648e-07	-25.71579240	-11.35681081	100.15398	100.15166	115	
## 76		NaN	0.00000000	0.00000000	119.06134	119.05902	123
## 77		NaN	0.00000000	0.00000000	117.02051	117.01820	115
## 78		NaN	0.00000000	0.00000000	119.98898	119.98667	132
## 79		NaN	0.00000000	0.00000000	119.52516	119.52284	133
## 80		NaN	0.00000000	0.00000000	119.98898	119.98667	125
## 81		NaN	0.00000000	0.00000000	118.41198	118.40967	117
## 82		NaN	0.00000000	0.00000000	118.50475	118.50243	116
## 83		NaN	0.00000000	0.00000000	118.78304	118.78073	152
## 84		NaN	0.00000000	0.00000000	118.41198	118.40967	101
## 85		NaN	0.00000000	0.00000000	118.31922	118.31690	107
## 86		NaN	0.00000000	0.00000000	119.98898	119.98667	136
## 87		NaN	0.00000000	0.00000000	118.31922	118.31690	120
## 88		NaN	0.00000000	0.00000000	117.76263	117.76031	127
## 89		NaN	0.00000000	0.00000000	117.76263	117.76031	123

## 90		NaN	0.00000000	0.00000000	117.66987	117.66755	135
## 91		NaN	0.00000000	0.00000000	119.98898	119.98667	86
## 92		NaN	0.00000000	0.00000000	123.00384	123.00152	97
## 93	4.185651e-07	-6.42894815	-2.83920265	113.03579	113.03347	93	
## 94		NaN	0.00000000	0.00000000	119.52516	119.52284	96
## 95	4.185651e-07	-6.42894815	-2.83920265	113.59238	113.59006	109	
## 96		NaN	0.00000000	0.00000000	119.52516	119.52284	117
## 97		NaN	0.00000000	0.00000000	118.69028	118.68796	115
## 98	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	121	
## 99		NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 100		NaN	0.00000000	0.00000000	119.06134	119.05902	118
## 101		NaN	0.00000000	0.00000000	120.91663	120.91431	134
## 102		NaN	0.00000000	0.00000000	120.45281	120.45049	156
## 103	4.185651e-07	-1.92868445	-0.85176080	116.65070	116.64839	139	
## 104		NaN	0.00000000	0.00000000	123.00384	123.00152	136
## 105		NaN	0.00000000	0.00000000	117.66987	117.66755	115
## 106		NaN	0.00000000	0.00000000	119.06134	119.05902	23
## 107		NaN	0.00000000	0.00000000	123.00384	123.00152	135
## 108	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	106	
## 109		NaN	0.00000000	0.00000000	117.66987	117.66755	116
## 110		NaN	0.00000000	0.00000000	123.00384	123.00152	147
## 111		NaN	0.00000000	0.00000000	117.76263	117.76031	115
## 112		NaN	0.00000000	0.00000000	118.13369	118.13137	85
## 113		NaN	0.00000000	0.00000000	120.45281	120.45049	102
## 114		NaN	0.00000000	0.00000000	118.31922	118.31690	122
## 115		NaN	0.00000000	0.00000000	123.00384	123.00152	109
## 116	4.185655e-07	-12.85789641	-5.67840520	111.18466	111.18234	97	
## 117		NaN	0.00000000	0.00000000	119.52516	119.52284	136
## 118		NaN	0.00000000	0.00000000	123.00384	123.00152	131
## 119		NaN	0.00000000	0.00000000	119.98898	119.98667	116
## 120		NaN	0.00000000	0.00000000	117.57710	117.57478	86
## 121		NaN	0.00000000	0.00000000	123.00384	123.00152	155
## 122	4.185648e-07	-25.71579240	-11.35681081	99.04080	99.03848	122	
## 123		NaN	0.00000000	0.00000000	123.00384	123.00152	105
## 124		NaN	0.00000000	0.00000000	123.00384	123.00152	131
## 125		NaN	0.00000000	0.00000000	117.66987	117.66755	126
## 126		NaN	0.00000000	0.00000000	118.59751	118.59520	127
## 127		NaN	0.00000000	0.00000000	119.52516	119.52284	125
## 128		NaN	0.00000000	0.00000000	120.45281	120.45049	98

## 129	NaN	0.00000000	0.00000000	119.06134	119.05902	144
## 130	NaN	0.00000000	0.00000000	119.06134	119.05902	91
## 131	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 132	NaN	0.00000000	0.00000000	120.91663	120.91431	128
## 133	NaN	0.00000000	0.00000000	117.20604	117.20373	144
## 134	NaN	0.00000000	0.00000000	117.94816	117.94584	91
## 135	NaN	0.00000000	0.00000000	120.91663	120.91431	122
## 136	NaN	0.00000000	0.00000000	118.31922	118.31690	139
## 137	NaN	0.00000000	0.00000000	120.91663	120.91431	126
## 138	NaN	0.00000000	0.00000000	119.98898	119.98667	107
## 139	NaN	0.00000000	0.00000000	117.29881	117.29649	79
## 140	NaN	0.00000000	0.00000000	120.91663	120.91431	102
## 141	NaN	0.00000000	0.00000000	118.41198	118.40967	126
## 142	NaN	0.00000000	0.00000000	119.98898	119.98667	120
## 143	NaN	0.00000000	0.00000000	118.78304	118.78073	101
## 144	NaN	0.00000000	0.00000000	120.91663	120.91431	131
## 145	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 146	NaN	0.00000000	0.00000000	118.22645	118.22414	142
## 147	NaN	0.00000000	0.00000000	119.52516	119.52284	144
## 148	NaN	0.00000000	0.00000000	120.91663	120.91431	58
## 149	NaN	0.00000000	0.00000000	117.48434	117.48202	88
## 150	NaN	0.00000000	0.00000000	117.48434	117.48202	123
## 151	NaN	0.00000000	0.00000000	123.00384	123.00152	146
## 152	NaN	0.00000000	0.00000000	119.06134	119.05902	135
## 153	NaN	0.00000000	0.00000000	118.69028	118.68796	125
## 154	NaN	0.00000000	0.00000000	119.52516	119.52284	125
## 155	NaN	0.00000000	0.00000000	123.00384	123.00152	99
## 156	4.185651e-07	-2.57157926	-1.13568106	118.13535	118.13304	120
## 157	NaN	0.00000000	0.00000000	119.06134	119.05902	114
## 158	NaN	0.00000000	0.00000000	120.45281	120.45049	88
## 159	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 160	NaN	0.00000000	0.00000000	117.11328	117.11096	123
## 161	NaN	0.00000000	0.00000000	119.52516	119.52284	135
## 162	NaN	0.00000000	0.00000000	121.38046	121.37814	116
## 163	NaN	0.00000000	0.00000000	119.98898	119.98667	128
## 164	NaN	0.00000000	0.00000000	123.00384	123.00152	111
## 165	NaN	0.00000000	0.00000000	117.76263	117.76031	123
## 166	NaN	0.00000000	0.00000000	123.00384	123.00152	115
## 167	NaN	0.00000000	0.00000000	119.52516	119.52284	167

## 168	NaN	0.00000000	0.00000000	120.45281	120.45049	82
## 169	NaN	0.00000000	0.00000000	120.45281	120.45049	121
## 170	NaN	0.00000000	0.00000000	119.06134	119.05902	114
## 171	NaN	0.00000000	0.00000000	120.45281	120.45049	116
## 172	4.185651e-07	-3.21447408	-1.41960133	115.44559	115.44328	141
## 173	NaN	0.00000000	0.00000000	120.91663	120.91431	141
## 174	NaN	0.00000000	0.00000000	123.00384	123.00152	120
## 175	NaN	0.00000000	0.00000000	118.13369	118.13137	110
## 176	NaN	0.00000000	0.00000000	119.52516	119.52284	120
## 177	NaN	0.00000000	0.00000000	119.52516	119.52284	125
## 178	NaN	0.00000000	0.00000000	123.00384	123.00152	82
## 179	NaN	0.00000000	0.00000000	119.06134	119.05902	141
## 180	NaN	0.00000000	0.00000000	118.69028	118.68796	144
## 181	NaN	0.00000000	0.00000000	118.22645	118.22414	102
## 182	NaN	0.00000000	0.00000000	118.69028	118.68796	121
## 183	NaN	0.00000000	0.00000000	119.52516	119.52284	80
## 184	NaN	0.00000000	0.00000000	119.06134	119.05902	106
## 185	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 186	4.185651e-07	-6.42894815	-2.83920265	115.35491	115.35259	116
## 187	NaN	0.00000000	0.00000000	119.06134	119.05902	123
## 188	NaN	0.00000000	0.00000000	120.45281	120.45049	132
## 189	4.185655e-07	-12.85789641	-5.67840520	112.11230	112.10999	118
## 190	NaN	0.00000000	0.00000000	123.00384	123.00152	131
## 191	NaN	0.00000000	0.00000000	119.98898	119.98667	152
## 192	NaN	0.00000000	0.00000000	117.94816	117.94584	120
## 193	NaN	0.00000000	0.00000000	119.06134	119.05902	145
## 194	NaN	0.00000000	0.00000000	120.45281	120.45049	124
## 195	NaN	0.00000000	0.00000000	123.00384	123.00152	142
## 196	NaN	0.00000000	0.00000000	123.00384	123.00152	117
## 197	NaN	0.00000000	0.00000000	117.94816	117.94584	100
## 198	NaN	0.00000000	0.00000000	119.98898	119.98667	120
## 199	NaN	0.00000000	0.00000000	119.98898	119.98667	145
## 200	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 201	NaN	0.00000000	0.00000000	121.38046	121.37814	166
## 202	4.185651e-07	-5.14315852	-2.27136212	116.28172	116.27941	103
## 203	NaN	0.00000000	0.00000000	117.57710	117.57478	133
## 204	NaN	0.00000000	0.00000000	118.13369	118.13137	112
## 205	NaN	0.00000000	0.00000000	121.38046	121.37814	119
## 206	NaN	0.00000000	0.00000000	118.78304	118.78073	123

## 207	NaN	0.00000000	0.00000000	117.66987	117.66755	107
## 208	NaN	0.00000000	0.00000000	117.76263	117.76031	145
## 209	NaN	0.00000000	0.00000000	118.78304	118.78073	133
## 210	NaN	0.00000000	0.00000000	123.00384	123.00152	146
## 211	NaN	0.00000000	0.00000000	119.98898	119.98667	134
## 212	NaN	0.00000000	0.00000000	123.00384	123.00152	140
## 213	NaN	0.00000000	0.00000000	118.78304	118.78073	95
## 214	NaN	0.00000000	0.00000000	118.59751	118.59520	126
## 215	NaN	0.00000000	0.00000000	119.52516	119.52284	134
## 216	NaN	0.00000000	0.00000000	118.13369	118.13137	64
## 217	4.185651e-07	-2.57157926	-1.13568106	117.67153	117.66921	119
## 218	NaN	0.00000000	0.00000000	119.98898	119.98667	140
## 219	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 220	NaN	0.00000000	0.00000000	118.69028	118.68796	103
## 221	4.185655e-07	-12.85789641	-5.67840520	110.72083	110.71852	68
## 222	NaN	0.00000000	0.00000000	120.91663	120.91431	97
## 223	NaN	0.00000000	0.00000000	120.45281	120.45049	120
## 224	NaN	0.00000000	0.00000000	119.98898	119.98667	121
## 225	NaN	0.00000000	0.00000000	117.85540	117.85308	130
## 226	4.185651e-07	-6.42894815	-2.83920265	113.77791	113.77559	115
## 227	NaN	0.00000000	0.00000000	123.00384	123.00152	112
## 228	NaN	0.00000000	0.00000000	123.00384	123.00152	120
## 229	4.185648e-07	-7.71473772	-3.40704324	113.50045	113.49813	103
## 230	NaN	0.00000000	0.00000000	119.98898	119.98667	100
## 231	NaN	0.00000000	0.00000000	123.00384	123.00152	117
## 232	NaN	0.00000000	0.00000000	123.00384	123.00152	126
## 233	NaN	0.00000000	0.00000000	117.48434	117.48202	142
## 234	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 235	NaN	0.00000000	0.00000000	118.22645	118.22414	111
## 236	NaN	0.00000000	0.00000000	123.00384	123.00152	152
## 237	NaN	0.00000000	0.00000000	123.00384	123.00152	124
## 238	NaN	0.00000000	0.00000000	119.52516	119.52284	146
## 239	NaN	0.00000000	0.00000000	119.52516	119.52284	102
## 240	NaN	0.00000000	0.00000000	119.52516	119.52284	129
## 241	NaN	0.00000000	0.00000000	117.94816	117.94584	125
## 242	NaN	0.00000000	0.00000000	117.85540	117.85308	126
## 243	NaN	0.00000000	0.00000000	117.02051	117.01820	101
## 244	NaN	0.00000000	0.00000000	119.98898	119.98667	113
## 245	NaN	0.00000000	0.00000000	118.78304	118.78073	136

## 246	NaN	0.00000000	0.00000000	120.91663	120.91431	101
## 247	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 248	NaN	0.00000000	0.00000000	123.00384	123.00152	100
## 249	NaN	0.00000000	0.00000000	120.91663	120.91431	130
## 250	NaN	0.00000000	0.00000000	120.45281	120.45049	136
## 251	NaN	0.00000000	0.00000000	117.57710	117.57478	100
## 252	NaN	0.00000000	0.00000000	123.00384	123.00152	122
## 253	NaN	0.00000000	0.00000000	117.11328	117.11096	90
## 254	NaN	0.00000000	0.00000000	123.00384	123.00152	94
## 255	NaN	0.00000000	0.00000000	119.98898	119.98667	108
## 256	NaN	0.00000000	0.00000000	123.00384	123.00152	107
## 257	4.185655e-07	-12.85789641	-5.67840520	109.32936	109.32705	119
## 258	NaN	0.00000000	0.00000000	118.69028	118.68796	106
## 259	NaN	0.00000000	0.00000000	118.22645	118.22414	113
## 260	NaN	0.00000000	0.00000000	117.94816	117.94584	132
## 261	NaN	0.00000000	0.00000000	118.69028	118.68796	99
## 262	4.185651e-07	-6.42894815	-2.83920265	113.59238	113.59006	110
## 263	4.185651e-07	-6.42894815	-2.83920265	115.35491	115.35259	76
## 264	NaN	0.00000000	0.00000000	118.41198	118.40967	123
## 265	NaN	0.00000000	0.00000000	117.94816	117.94584	123
## 266	NaN	0.00000000	0.00000000	119.98898	119.98667	129
## 267	NaN	0.00000000	0.00000000	118.22645	118.22414	95
## 268	NaN	0.00000000	0.00000000	118.50475	118.50243	118
## 269	4.185655e-07	-12.85789641	-5.67840520	108.30895	108.30663	115
## 270	NaN	0.00000000	0.00000000	117.76263	117.76031	133
## 271	NaN	0.00000000	0.00000000	119.06134	119.05902	139
## 272	NaN	0.00000000	0.00000000	119.52516	119.52284	124
## 273	4.185655e-07	-12.85789641	-5.67840520	108.86554	108.86322	60
## 274	NaN	0.00000000	0.00000000	118.78304	118.78073	87
## 275	NaN	0.00000000	0.00000000	123.00384	123.00152	130
## 276	NaN	0.00000000	0.00000000	123.00384	123.00152	110
## 277	NaN	0.00000000	0.00000000	118.41198	118.40967	73
## 278	NaN	0.00000000	0.00000000	120.45281	120.45049	126
## 279	NaN	0.00000000	0.00000000	121.38046	121.37814	125
## 280	NaN	0.00000000	0.00000000	121.38046	121.37814	166
## 281	NaN	0.00000000	0.00000000	120.45281	120.45049	122
## 282	4.185651e-07	-2.57157926	-1.13568106	118.13535	118.13304	120
## 283	NaN	0.00000000	0.00000000	123.00384	123.00152	143
## 284	NaN	0.00000000	0.00000000	119.52516	119.52284	122

## 285	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 286	NaN	0.00000000	0.00000000	123.00384	123.00152	126
## 287	NaN	0.00000000	0.00000000	119.98898	119.98667	156
## 288	NaN	0.00000000	0.00000000	119.06134	119.05902	129
## 289	NaN	0.00000000	0.00000000	118.59751	118.59520	120
## 290	4.185651e-07	-0.64289482	-0.28392027	119.52558	119.52326	113
## 291	NaN	0.00000000	0.00000000	123.00384	123.00152	81
## 292	NaN	0.00000000	0.00000000	120.45281	120.45049	83
## 293	NaN	0.00000000	0.00000000	120.45281	120.45049	129
## 294	NaN	0.00000000	0.00000000	118.31922	118.31690	133
## 295	4.185655e-07	-12.85789641	-5.67840520	109.42213	109.41981	112
## 296	NaN	0.00000000	0.00000000	123.00384	123.00152	119
## 297	NaN	0.00000000	0.00000000	121.38046	121.37814	139
## 298	NaN	0.00000000	0.00000000	119.52516	119.52284	111
## 299	4.185648e-07	-25.71579240	-11.35681081	100.98886	100.98654	81
## 300	NaN	0.00000000	0.00000000	119.52516	119.52284	127
## 301	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 302	NaN	0.00000000	0.00000000	119.98898	119.98667	107
## 303	4.185655e-07	-12.85789641	-5.67840520	108.03066	108.02834	98
## 304	4.185651e-07	-6.42894815	-2.83920265	114.05620	114.05389	113
## 305	NaN	0.00000000	0.00000000	118.78304	118.78073	104
## 306	NaN	0.00000000	0.00000000	119.98898	119.98667	108
## 307	NaN	0.00000000	0.00000000	119.06134	119.05902	144
## 308	NaN	0.00000000	0.00000000	123.00384	123.00152	110
## 309	NaN	0.00000000	0.00000000	123.00384	123.00152	138
## 310	NaN	0.00000000	0.00000000	118.31922	118.31690	107
## 311	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 312	4.185651e-07	-6.42894815	-2.83920265	113.68514	113.68283	144
## 313	NaN	0.00000000	0.00000000	120.45281	120.45049	136
## 314	NaN	0.00000000	0.00000000	118.22645	118.22414	110
## 315	4.185655e-07	-12.85789641	-5.67840520	108.12342	108.12110	105
## 316	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 317	NaN	0.00000000	0.00000000	120.45281	120.45049	117
## 318	NaN	0.00000000	0.00000000	123.00384	123.00152	145
## 319	NaN	0.00000000	0.00000000	118.04092	118.03861	96
## 320	NaN	0.00000000	0.00000000	119.06134	119.05902	140
## 321	NaN	0.00000000	0.00000000	123.00384	123.00152	101
## 322	NaN	0.00000000	0.00000000	120.45281	120.45049	148
## 323	NaN	0.00000000	0.00000000	117.94816	117.94584	135

## 324	NaN	0.00000000	0.00000000	120.45281	120.45049	120
## 325	NaN	0.00000000	0.00000000	119.06134	119.05902	130
## 326	NaN	0.00000000	0.00000000	118.41198	118.40967	134
## 327	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 328	4.185648e-07	-9.64342215	-4.25880406	110.06940	110.06708	111
## 329	NaN	0.00000000	0.00000000	119.98898	119.98667	128
## 330	NaN	0.00000000	0.00000000	117.94816	117.94584	134
## 331	NaN	0.00000000	0.00000000	119.06134	119.05902	141
## 332	NaN	0.00000000	0.00000000	121.38046	121.37814	115
## 333	NaN	0.00000000	0.00000000	119.52516	119.52284	98
## 334	NaN	0.00000000	0.00000000	123.00384	123.00152	118
## 335	NaN	0.00000000	0.00000000	121.38046	121.37814	130
## 336	NaN	0.00000000	0.00000000	117.39157	117.38925	136
## 337	NaN	0.00000000	0.00000000	117.76263	117.76031	129
## 338	NaN	0.00000000	0.00000000	121.38046	121.37814	93
## 339	4.185655e-07	-12.85789641	-5.67840520	108.86554	108.86322	91
## 340	NaN	0.00000000	0.00000000	123.00384	123.00152	110
## 341	NaN	0.00000000	0.00000000	117.85540	117.85308	112
## 342	4.185655e-07	-12.85789641	-5.67840520	111.18466	111.18234	112
## 343	4.185648e-07	-7.71473772	-3.40704324	113.96427	113.96195	98
## 344	NaN	0.00000000	0.00000000	123.00384	123.00152	147
## 345	4.185651e-07	-5.14315852	-2.27136212	113.96261	113.96029	92
## 346	NaN	0.00000000	0.00000000	123.00384	123.00152	98
## 347	NaN	0.00000000	0.00000000	121.38046	121.37814	98
## 348	NaN	0.00000000	0.00000000	123.00384	123.00152	137
## 349	NaN	0.00000000	0.00000000	120.91663	120.91431	113
## 350	NaN	0.00000000	0.00000000	119.52516	119.52284	137
## 351	4.185648e-07	-9.64342215	-4.25880406	113.50170	113.49938	71
## 352	NaN	0.00000000	0.00000000	121.38046	121.37814	129
## 353	4.185651e-07	-6.42894815	-2.83920265	112.57197	112.56965	149
## 354	NaN	0.00000000	0.00000000	117.66987	117.66755	124
## 355	NaN	0.00000000	0.00000000	117.57710	117.57478	138
## 356	NaN	0.00000000	0.00000000	120.45281	120.45049	128
## 357	4.185651e-07	-6.42894815	-2.83920265	115.35491	115.35259	122
## 358	NaN	0.00000000	0.00000000	121.38046	121.37814	118
## 359	NaN	0.00000000	0.00000000	120.91663	120.91431	128
## 360	4.185655e-07	-12.85789641	-5.67840520	108.58724	108.58493	142
## 361	NaN	0.00000000	0.00000000	121.38046	121.37814	127
## 362	NaN	0.00000000	0.00000000	123.00384	123.00152	112

## 363	NaN	0.00000000	0.00000000	119.06134	119.05902	113
## 364	NaN	0.00000000	0.00000000	120.91663	120.91431	112
## 365	NaN	0.00000000	0.00000000	120.45281	120.45049	82
## 366	NaN	0.00000000	0.00000000	118.78304	118.78073	141
## 367	NaN	0.00000000	0.00000000	120.91663	120.91431	107
## 368	NaN	0.00000000	0.00000000	118.31922	118.31690	117
## 369	NaN	0.00000000	0.00000000	120.45281	120.45049	127
## 370	NaN	0.00000000	0.00000000	117.66987	117.66755	133
## 371	NaN	0.00000000	0.00000000	120.45281	120.45049	118
## 372	NaN	0.00000000	0.00000000	119.98898	119.98667	144
## 373	NaN	0.00000000	0.00000000	117.85540	117.85308	109
## 374	NaN	0.00000000	0.00000000	123.00384	123.00152	79
## 375	NaN	0.00000000	0.00000000	119.98898	119.98667	124
## 376	4.185651e-07	-6.42894815	-2.83920265	112.85026	112.84794	130
## 377	NaN	0.00000000	0.00000000	120.91663	120.91431	271
## 378	NaN	0.00000000	0.00000000	119.06134	119.05902	160
## 379	NaN	0.00000000	0.00000000	120.91663	120.91431	127
## 380	NaN	0.00000000	0.00000000	117.66987	117.66755	108
## 381	NaN	0.00000000	0.00000000	118.22645	118.22414	90
## 382	NaN	0.00000000	0.00000000	119.52516	119.52284	140
## 383	NaN	0.00000000	0.00000000	120.91663	120.91431	126
## 384	NaN	0.00000000	0.00000000	119.98898	119.98667	110
## 385	NaN	0.00000000	0.00000000	119.98898	119.98667	127
## 386	NaN	0.00000000	0.00000000	117.48434	117.48202	101
## 387	NaN	0.00000000	0.00000000	121.38046	121.37814	92
## 388	NaN	0.00000000	0.00000000	121.38046	121.37814	121
## 389	NaN	0.00000000	0.00000000	120.91663	120.91431	102
## 390	NaN	0.00000000	0.00000000	120.45281	120.45049	125
## 391	NaN	0.00000000	0.00000000	119.98898	119.98667	141
## 392	NaN	0.00000000	0.00000000	123.00384	123.00152	121
## 393	NaN	0.00000000	0.00000000	121.38046	121.37814	127
## 394	NaN	0.00000000	0.00000000	120.91663	120.91431	119
## 395	NaN	0.00000000	0.00000000	119.52516	119.52284	106
## 396	NaN	0.00000000	0.00000000	118.59751	118.59520	105
## 397	NaN	0.00000000	0.00000000	118.69028	118.68796	104
## 398	NaN	0.00000000	0.00000000	120.91663	120.91431	131
## 399	NaN	0.00000000	0.00000000	120.45281	120.45049	96
## 400	NaN	0.00000000	0.00000000	120.91663	120.91431	141
## 401	NaN	0.00000000	0.00000000	119.98898	119.98667	93

## 402	NaN	0.00000000	0.00000000	117.20604	117.20373	114
## 403	NaN	0.00000000	0.00000000	118.69028	118.68796	112
## 404	NaN	0.00000000	0.00000000	117.39157	117.38925	138
## 405	NaN	0.00000000	0.00000000	119.06134	119.05902	136
## 406	4.185655e-07	-12.85789641	-5.67840520	108.12342	108.12110	113
## 407	NaN	0.00000000	0.00000000	119.52516	119.52284	105
## 408	NaN	0.00000000	0.00000000	118.78304	118.78073	120
## 409	NaN	0.00000000	0.00000000	119.52516	119.52284	35
## 410	NaN	0.00000000	0.00000000	118.78304	118.78073	149
## 411	NaN	0.00000000	0.00000000	118.69028	118.68796	122
## 412	NaN	0.00000000	0.00000000	119.06134	119.05902	146
## 413	NaN	0.00000000	0.00000000	119.06134	119.05902	161
## 414	4.185655e-07	-12.85789641	-5.67840520	107.84513	107.84281	142
## 415	NaN	0.00000000	0.00000000	117.39157	117.38925	119
## 416	4.185651e-07	-2.57157926	-1.13568106	115.44518	115.44286	83
## 417	NaN	0.00000000	0.00000000	117.29881	117.29649	136
## 418	NaN	0.00000000	0.00000000	120.91663	120.91431	116
## 419	NaN	0.00000000	0.00000000	120.45281	120.45049	93
## 420	NaN	0.00000000	0.00000000	119.06134	119.05902	110
## 421	NaN	0.00000000	0.00000000	120.45281	120.45049	124
## 422	NaN	0.00000000	0.00000000	118.41198	118.40967	123
## 423	NaN	0.00000000	0.00000000	119.52516	119.52284	129
## 424	NaN	0.00000000	0.00000000	119.98898	119.98667	106
## 425	NaN	0.00000000	0.00000000	119.06134	119.05902	130
## 426	NaN	0.00000000	0.00000000	119.52516	119.52284	111
## 427	NaN	0.00000000	0.00000000	119.52516	119.52284	115
## 428	NaN	0.00000000	0.00000000	117.39157	117.38925	110
## 429	NaN	0.00000000	0.00000000	119.52516	119.52284	117
## 430	NaN	0.00000000	0.00000000	119.06134	119.05902	113
## 431	NaN	0.00000000	0.00000000	119.52516	119.52284	114
## 432	NaN	0.00000000	0.00000000	118.78304	118.78073	146
## 433	4.185655e-07	-12.85789641	-5.67840520	108.12342	108.12110	98
## 434	4.185651e-07	-6.42894815	-2.83920265	113.40685	113.40453	143
## 435	NaN	0.00000000	0.00000000	119.52516	119.52284	116
## 436	4.185654e-07	-19.28684460	-8.51760781	106.55058	106.54826	116
## 437	NaN	0.00000000	0.00000000	117.57710	117.57478	75
## 438	NaN	0.00000000	0.00000000	119.98898	119.98667	139
## 439	NaN	0.00000000	0.00000000	118.69028	118.68796	120
## 440	NaN	0.00000000	0.00000000	119.98898	119.98667	146

## 441	NaN	0.00000000	0.00000000	120.91663	120.91431	145
## 442	NaN	0.00000000	0.00000000	119.06134	119.05902	136
## 443	NaN	0.00000000	0.00000000	118.50475	118.50243	120
## 444	NaN	0.00000000	0.00000000	120.91663	120.91431	106
## 445	4.185648e-07	-9.64342215	-4.25880406	113.50170	113.49938	109
## 446	NaN	0.00000000	0.00000000	118.22645	118.22414	97
## 447	NaN	0.00000000	0.00000000	119.06134	119.05902	30
## 448	NaN	0.00000000	0.00000000	119.06134	119.05902	122
## 449	NaN	0.00000000	0.00000000	120.45281	120.45049	130
## 450	NaN	0.00000000	0.00000000	119.52516	119.52284	115
## 451	NaN	0.00000000	0.00000000	118.50475	118.50243	116
## 452	NaN	0.00000000	0.00000000	121.38046	121.37814	134
## 453	NaN	0.00000000	0.00000000	119.06134	119.05902	127
## 454	NaN	0.00000000	0.00000000	119.06134	119.05902	101
## 455	NaN	0.00000000	0.00000000	121.38046	121.37814	145
## 456	NaN	0.00000000	0.00000000	119.06134	119.05902	128
## 457	NaN	0.00000000	0.00000000	118.31922	118.31690	130
## 458	NaN	0.00000000	0.00000000	118.50475	118.50243	138
## 459	NaN	0.00000000	0.00000000	118.31922	118.31690	133
## 460	NaN	0.00000000	0.00000000	118.69028	118.68796	106
## 461	NaN	0.00000000	0.00000000	117.29881	117.29649	135
## 462	4.185648e-07	-9.64342215	-4.25880406	112.57405	112.57173	104
## 463	NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 464	NaN	0.00000000	0.00000000	118.59751	118.59520	98
## 465	NaN	0.00000000	0.00000000	118.69028	118.68796	123
## 466	NaN	0.00000000	0.00000000	117.02051	117.01820	96
## 467	NaN	0.00000000	0.00000000	118.59751	118.59520	119
## 468	NaN	0.00000000	0.00000000	118.69028	118.68796	134
## 469	NaN	0.00000000	0.00000000	117.02051	117.01820	83
## 470	NaN	0.00000000	0.00000000	120.45281	120.45049	161
## 471	4.185651e-07	-3.21447408	-1.41960133	115.35283	115.35051	109
## 472	NaN	0.00000000	0.00000000	118.69028	118.68796	113
## 473	NaN	0.00000000	0.00000000	117.39157	117.38925	98
## 474	NaN	0.00000000	0.00000000	119.52516	119.52284	138
## 475	NaN	0.00000000	0.00000000	117.57710	117.57478	120
## 476	NaN	0.00000000	0.00000000	119.52516	119.52284	112
## 477	NaN	0.00000000	0.00000000	118.04092	118.03861	104
## 478	NaN	0.00000000	0.00000000	120.91663	120.91431	103
## 479	NaN	0.00000000	0.00000000	119.06134	119.05902	156

## 480	NaN	0.00000000	0.00000000	118.78304	118.78073	119
## 481	NaN	0.00000000	0.00000000	123.00384	123.00152	134
## 482	NaN	0.00000000	0.00000000	120.45281	120.45049	149
## 483	NaN	0.00000000	0.00000000	120.91663	120.91431	106
## 484	NaN	0.00000000	0.00000000	120.91663	120.91431	112
## 485	NaN	0.00000000	0.00000000	120.45281	120.45049	139
## 486	NaN	0.00000000	0.00000000	121.38046	121.37814	137
## 487	4.185655e-07	-12.85789641	-5.67840520	109.05107	109.04875	90
## 488	NaN	0.00000000	0.00000000	119.98898	119.98667	137
## 489	4.185655e-07	-12.85789641	-5.67840520	109.14383	109.14152	140
## 490	NaN	0.00000000	0.00000000	119.98898	119.98667	126
## 491	NaN	0.00000000	0.00000000	118.69028	118.68796	112
## 492	NaN	0.00000000	0.00000000	117.20604	117.20373	60
## 493	NaN	0.00000000	0.00000000	117.48434	117.48202	109
## 494	NaN	0.00000000	0.00000000	121.38046	121.37814	129
## 495	4.185651e-07	-3.21447408	-1.41960133	114.98177	114.97945	104
## 496	NaN	0.00000000	0.00000000	120.91663	120.91431	71
## 497	NaN	0.00000000	0.00000000	117.57710	117.57478	86
## 498	NaN	0.00000000	0.00000000	119.98898	119.98667	124
## 499	NaN	0.00000000	0.00000000	121.38046	121.37814	112
## 500	NaN	0.00000000	0.00000000	117.29881	117.29649	79
## 501	NaN	0.00000000	0.00000000	119.52516	119.52284	95
## 502	NaN	0.00000000	0.00000000	119.06134	119.05902	100
## 503	NaN	0.00000000	0.00000000	119.52516	119.52284	100
## 504	NaN	0.00000000	0.00000000	118.69028	118.68796	105
## 505	4.185655e-07	-12.85789641	-5.67840520	108.86554	108.86322	107
## 506	NaN	0.00000000	0.00000000	117.02051	117.01820	141
## 507	NaN	0.00000000	0.00000000	117.11328	117.11096	142
## 508	4.185651e-07	-3.21447408	-1.41960133	118.13577	118.13345	99
## 509	4.185651e-07	-3.21447408	-1.41960133	116.37324	116.37092	112
## 510	NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 511	NaN	0.00000000	0.00000000	121.38046	121.37814	147
## 512	NaN	0.00000000	0.00000000	123.00384	123.00152	94
## 513	NaN	0.00000000	0.00000000	123.00384	123.00152	148
## 514	4.185655e-07	-19.28684461	-8.51760780	104.13870	104.13638	91
## 515	NaN	0.00000000	0.00000000	119.98898	119.98667	131
## 516	NaN	0.00000000	0.00000000	119.06134	119.05902	102
## 517	NaN	0.00000000	0.00000000	119.98898	119.98667	161
## 518	NaN	0.00000000	0.00000000	123.00384	123.00152	120

## 519	NaN	0.00000000	0.00000000	119.52516	119.52284	105
## 520	NaN	0.00000000	0.00000000	118.69028	118.68796	112
## 521	NaN	0.00000000	0.00000000	120.45281	120.45049	130
## 522	NaN	0.00000000	0.00000000	119.98898	119.98667	136
## 523	NaN	0.00000000	0.00000000	118.78304	118.78073	110
## 524	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 525	NaN	0.00000000	0.00000000	119.52516	119.52284	124
## 526	NaN	0.00000000	0.00000000	119.06134	119.05902	134
## 527	NaN	0.00000000	0.00000000	121.38046	121.37814	136
## 528	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 529	NaN	0.00000000	0.00000000	118.69028	118.68796	108
## 530	NaN	0.00000000	0.00000000	118.59751	118.59520	122
## 531	NaN	0.00000000	0.00000000	118.69028	118.68796	137
## 532	4.185652e-07	-6.42894815	-2.83920265	118.36976	118.36745	119
## 533	NaN	0.00000000	0.00000000	119.98898	119.98667	144
## 534	NaN	0.00000000	0.00000000	121.38046	121.37814	128
## 535	NaN	0.00000000	0.00000000	118.22645	118.22414	104
## 536	NaN	0.00000000	0.00000000	119.98898	119.98667	118
## 537	NaN	0.00000000	0.00000000	123.00384	123.00152	93
## 538	4.185655e-07	-3.85736892	-1.70352156	118.13619	118.13387	138
## 539	NaN	0.00000000	0.00000000	119.98898	119.98667	135
## 540	NaN	0.00000000	0.00000000	120.91663	120.91431	128
## 541	NaN	0.00000000	0.00000000	120.45281	120.45049	118
## 542	NaN	0.00000000	0.00000000	117.85540	117.85308	114
## 543	NaN	0.00000000	0.00000000	120.45281	120.45049	120
## 544	NaN	0.00000000	0.00000000	123.00384	123.00152	113
## 545	NaN	0.00000000	0.00000000	120.91663	120.91431	110
## 546	NaN	0.00000000	0.00000000	120.45281	120.45049	106
## 547	4.185655e-07	-12.85789641	-5.67840520	108.58724	108.58493	125
## 548	NaN	0.00000000	0.00000000	118.78304	118.78073	107
## 549	NaN	0.00000000	0.00000000	118.78304	118.78073	130
## 550	NaN	0.00000000	0.00000000	121.38046	121.37814	116
## 551	4.185651e-07	-3.21447408	-1.41960133	118.59959	118.59728	102
## 552	NaN	0.00000000	0.00000000	119.52516	119.52284	112
## 553	4.185654e-07	-12.85789640	-5.67840521	113.73569	113.73337	124
## 554	NaN	0.00000000	0.00000000	119.98898	119.98667	118
## 555	NaN	0.00000000	0.00000000	121.38046	121.37814	125
## 556	NaN	0.00000000	0.00000000	123.00384	123.00152	103
## 557	NaN	0.00000000	0.00000000	117.57710	117.57478	115

## 558	NaN	0.00000000	0.00000000	120.91663	120.91431	136
## 559	4.185651e-07	-6.42894815	-2.83920265	114.14897	114.14665	120
## 560	4.185655e-07	-1.28578964	-0.56784052	122.07702	122.07471	139
## 561	NaN	0.00000000	0.00000000	119.52516	119.52284	137
## 562	4.185651e-07	-3.21447408	-1.41960133	118.13577	118.13345	120
## 563	NaN	0.00000000	0.00000000	119.52516	119.52284	113
## 564	NaN	0.00000000	0.00000000	119.06134	119.05902	102
## 565	NaN	0.00000000	0.00000000	119.52516	119.52284	132
## 566	4.185651e-07	-0.64289482	-0.28392027	119.98940	119.98708	141
## 567	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 568	4.185655e-07	-12.85789641	-5.67840520	110.25701	110.25469	103
## 569	NaN	0.00000000	0.00000000	119.98898	119.98667	117
## 570	NaN	0.00000000	0.00000000	119.98898	119.98667	113
## 571	NaN	0.00000000	0.00000000	120.45281	120.45049	136
## 572	NaN	0.00000000	0.00000000	120.45281	120.45049	128
## 573	NaN	0.00000000	0.00000000	118.78304	118.78073	110
## 574	NaN	0.00000000	0.00000000	123.00384	123.00152	110
## 575	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 576	NaN	0.00000000	0.00000000	119.98898	119.98667	150
## 577	NaN	0.00000000	0.00000000	120.91663	120.91431	117
## 578	NaN	0.00000000	0.00000000	119.06134	119.05902	142
## 579	NaN	0.00000000	0.00000000	119.06134	119.05902	111
## 580	4.185651e-07	-6.42894815	-2.83920265	113.87067	113.86836	101
## 581	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 582	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 583	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 584	4.185651e-07	-6.42894815	-2.83920265	113.59238	113.59006	94
## 585	NaN	0.00000000	0.00000000	119.98898	119.98667	110
## 586	NaN	0.00000000	0.00000000	120.45281	120.45049	87
## 587	NaN	0.00000000	0.00000000	120.45281	120.45049	109
## 588	NaN	0.00000000	0.00000000	119.52516	119.52284	112
## 589	4.185655e-07	-12.85789641	-5.67840520	108.30895	108.30663	108
## 590	NaN	0.00000000	0.00000000	118.78304	118.78073	139
## 591	NaN	0.00000000	0.00000000	119.98898	119.98667	104
## 592	NaN	0.00000000	0.00000000	119.06134	119.05902	121
## 593	NaN	0.00000000	0.00000000	123.00384	123.00152	110
## 594	NaN	0.00000000	0.00000000	119.52516	119.52284	155
## 595	NaN	0.00000000	0.00000000	118.69028	118.68796	147
## 596	NaN	0.00000000	0.00000000	121.38046	121.37814	117

## 597	NaN	0.00000000	0.00000000	117.11328	117.11096	113
## 598	NaN	0.00000000	0.00000000	120.91663	120.91431	136
## 599	NaN	0.00000000	0.00000000	117.11328	117.11096	105
## 600	NaN	0.00000000	0.00000000	123.00384	123.00152	129
## 601	NaN	0.00000000	0.00000000	119.06134	119.05902	114
## 602	NaN	0.00000000	0.00000000	120.91663	120.91431	109
## 603	NaN	0.00000000	0.00000000	117.02051	117.01820	108
## 604	NaN	0.00000000	0.00000000	121.38046	121.37814	142
## 605	NaN	0.00000000	0.00000000	123.00384	123.00152	99
## 606	4.185655e-07	-12.85789641	-5.67840520	108.77277	108.77046	79
## 607	4.185655e-07	-12.85789641	-5.67840520	108.21619	108.21387	102
## 608	NaN	0.00000000	0.00000000	123.00384	123.00152	74
## 609	4.185651e-07	-1.92868445	-0.85176080	115.81582	115.81350	109
## 610	NaN	0.00000000	0.00000000	123.00384	123.00152	142
## 611	4.185651e-07	-6.42894815	-2.83920265	115.35491	115.35259	98
## 612	NaN	0.00000000	0.00000000	117.20604	117.20373	128
## 613	NaN	0.00000000	0.00000000	121.38046	121.37814	107
## 614	NaN	0.00000000	0.00000000	117.48434	117.48202	97
## 615	NaN	0.00000000	0.00000000	123.00384	123.00152	125
## 616	4.185655e-07	-12.85789641	-5.67840520	108.77277	108.77046	75
## 617	4.185648e-07	-25.71579240	-11.35681081	100.52504	100.52272	136
## 618	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 619	NaN	0.00000000	0.00000000	118.22645	118.22414	104
## 620	NaN	0.00000000	0.00000000	119.52516	119.52284	72
## 621	NaN	0.00000000	0.00000000	123.00384	123.00152	112
## 622	4.185655e-07	-12.85789641	-5.67840520	110.72083	110.71852	120
## 623	NaN	0.00000000	0.00000000	123.00384	123.00152	103
## 624	NaN	0.00000000	0.00000000	117.76263	117.76031	122
## 625	NaN	0.00000000	0.00000000	119.52516	119.52284	136
## 626	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 627	NaN	0.00000000	0.00000000	119.98898	119.98667	138
## 628	4.185651e-07	-5.14315852	-2.27136212	113.77708	113.77476	50
## 629	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	75
## 630	NaN	0.00000000	0.00000000	117.48434	117.48202	93
## 631	NaN	0.00000000	0.00000000	119.52516	119.52284	119
## 632	NaN	0.00000000	0.00000000	117.66987	117.66755	117
## 633	4.185651e-07	-6.42894815	-2.83920265	112.75750	112.75518	102
## 634	NaN	0.00000000	0.00000000	120.91663	120.91431	112
## 635	NaN	0.00000000	0.00000000	119.98898	119.98667	106

## 636	NaN	0.00000000	0.00000000	119.06134	119.05902	108
## 637	NaN	0.00000000	0.00000000	119.52516	119.52284	112
## 638	NaN	0.00000000	0.00000000	121.38046	121.37814	145
## 639	NaN	0.00000000	0.00000000	119.98898	119.98667	134
## 640	NaN	0.00000000	0.00000000	117.29881	117.29649	117
## 641	4.185651e-07	-4.50026371	-1.98744186	116.74513	116.74281	114
## 642	NaN	0.00000000	0.00000000	117.85540	117.85308	52
## 643	NaN	0.00000000	0.00000000	121.38046	121.37814	125
## 644	NaN	0.00000000	0.00000000	120.91663	120.91431	127
## 645	NaN	0.00000000	0.00000000	117.85540	117.85308	132
## 646	NaN	0.00000000	0.00000000	118.69028	118.68796	100
## 647	NaN	0.00000000	0.00000000	120.45281	120.45049	80
## 648	NaN	0.00000000	0.00000000	119.52516	119.52284	124
## 649	NaN	0.00000000	0.00000000	120.45281	120.45049	123
## 650	NaN	0.00000000	0.00000000	118.69028	118.68796	121
## 651	NaN	0.00000000	0.00000000	123.00384	123.00152	136
## 652	NaN	0.00000000	0.00000000	119.98898	119.98667	152
## 653	NaN	0.00000000	0.00000000	119.52516	119.52284	132
## 654	NaN	0.00000000	0.00000000	123.00384	123.00152	143
## 655	4.185651e-07	-5.14315852	-2.27136212	115.35408	115.35176	114
## 656	NaN	0.00000000	0.00000000	123.00384	123.00152	88
## 657	NaN	0.00000000	0.00000000	120.45281	120.45049	81
## 658	NaN	0.00000000	0.00000000	119.06134	119.05902	115
## 659	NaN	0.00000000	0.00000000	121.38046	121.37814	150
## 660	NaN	0.00000000	0.00000000	120.91663	120.91431	141
## 661	NaN	0.00000000	0.00000000	118.13369	118.13137	125
## 662	NaN	0.00000000	0.00000000	118.69028	118.68796	135
## 663	4.185655e-07	-12.85789641	-5.67840520	108.30895	108.30663	120
## 664	NaN	0.00000000	0.00000000	120.91663	120.91431	83
## 665	NaN	0.00000000	0.00000000	119.52516	119.52284	143
## 666	NaN	0.00000000	0.00000000	123.00384	123.00152	153
## 667	NaN	0.00000000	0.00000000	123.00384	123.00152	150
## 668	NaN	0.00000000	0.00000000	119.52516	119.52284	152
## 669	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	148
## 670	NaN	0.00000000	0.00000000	120.91663	120.91431	123
## 671	NaN	0.00000000	0.00000000	119.52516	119.52284	117
## 672	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 673	NaN	0.00000000	0.00000000	123.00384	123.00152	92
## 674	NaN	0.00000000	0.00000000	119.52516	119.52284	115

## 675	NaN	0.00000000	0.00000000	119.52516	119.52284	105
## 676	NaN	0.00000000	0.00000000	123.00384	123.00152	141
## 677	NaN	0.00000000	0.00000000	118.31922	118.31690	104
## 678	NaN	0.00000000	0.00000000	119.06134	119.05902	156
## 679	NaN	0.00000000	0.00000000	117.94816	117.94584	131
## 680	NaN	0.00000000	0.00000000	118.41198	118.40967	117
## 681	NaN	0.00000000	0.00000000	119.98898	119.98667	141
## 682	NaN	0.00000000	0.00000000	119.98898	119.98667	138
## 683	NaN	0.00000000	0.00000000	117.39157	117.38925	136
## 684	NaN	0.00000000	0.00000000	117.57710	117.57478	149
## 685	NaN	0.00000000	0.00000000	117.76263	117.76031	144
## 686	NaN	0.00000000	0.00000000	119.98898	119.98667	123
## 687	NaN	0.00000000	0.00000000	119.98898	119.98667	114
## 688	NaN	0.00000000	0.00000000	119.98898	119.98667	100
## 689	NaN	0.00000000	0.00000000	121.38046	121.37814	127
## 690	4.185655e-07	-12.85789641	-5.67840520	109.32936	109.32705	92
## 691	NaN	0.00000000	0.00000000	120.45281	120.45049	138
## 692	NaN	0.00000000	0.00000000	119.52516	119.52284	139
## 693	NaN	0.00000000	0.00000000	117.66987	117.66755	124
## 694	NaN	0.00000000	0.00000000	117.94816	117.94584	132
## 695	NaN	0.00000000	0.00000000	119.06134	119.05902	151
## 696	NaN	0.00000000	0.00000000	119.52516	119.52284	126
## 697	4.185651e-07	-3.21447408	-1.41960133	117.67195	117.66963	95
## 698	NaN	0.00000000	0.00000000	120.45281	120.45049	115
## 699	NaN	0.00000000	0.00000000	117.39157	117.38925	109
## 700	NaN	0.00000000	0.00000000	117.20604	117.20373	86
## 701	NaN	0.00000000	0.00000000	121.38046	121.37814	128
## 702	4.185651e-07	-6.42894815	-2.83920265	114.42726	114.42494	94
## 703	NaN	0.00000000	0.00000000	117.11328	117.11096	144
## 704	NaN	0.00000000	0.00000000	119.06134	119.05902	92
## 705	NaN	0.00000000	0.00000000	119.52516	119.52284	117
## 706	NaN	0.00000000	0.00000000	123.00384	123.00152	130
## 707	NaN	0.00000000	0.00000000	120.91663	120.91431	82
## 708	NaN	0.00000000	0.00000000	118.13369	118.13137	121
## 709	NaN	0.00000000	0.00000000	121.38046	121.37814	98
## 710	4.185655e-07	-12.85789641	-5.67840520	110.72083	110.71852	137
## 711	4.185648e-07	-9.64342215	-4.25880406	113.50170	113.49938	114
## 712	NaN	0.00000000	0.00000000	120.91663	120.91431	121
## 713	NaN	0.00000000	0.00000000	119.06134	119.05902	124

## 714	NaN	0.00000000	0.00000000	118.59751	118.59520	119
## 715	NaN	0.00000000	0.00000000	119.98898	119.98667	151
## 716	NaN	0.00000000	0.00000000	119.06134	119.05902	144
## 717	NaN	0.00000000	0.00000000	118.69028	118.68796	124
## 718	4.185651e-07	-4.50026371	-1.98744186	116.74513	116.74281	100
## 719	NaN	0.00000000	0.00000000	119.52516	119.52284	160
## 720	NaN	0.00000000	0.00000000	117.29881	117.29649	109
## 721	NaN	0.00000000	0.00000000	118.41198	118.40967	138
## 722	NaN	0.00000000	0.00000000	123.00384	123.00152	122
## 723	NaN	0.00000000	0.00000000	120.45281	120.45049	109
## 724	NaN	0.00000000	0.00000000	119.98898	119.98667	139
## 725	NaN	0.00000000	0.00000000	117.85540	117.85308	125
## 726	4.185648e-07	-9.64342215	-4.25880406	112.11022	112.10791	118
## 727	NaN	0.00000000	0.00000000	120.91663	120.91431	114
## 728	NaN	0.00000000	0.00000000	123.00384	123.00152	152
## 729	4.185651e-07	-0.64289482	-0.28392027	119.98940	119.98708	114
## 730	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 731	NaN	0.00000000	0.00000000	118.41198	118.40967	149
## 732	4.185648e-07	-9.64342215	-4.25880406	113.96552	113.96320	126
## 733	NaN	0.00000000	0.00000000	118.31922	118.31690	114
## 734	NaN	0.00000000	0.00000000	120.45281	120.45049	126
## 735	NaN	0.00000000	0.00000000	119.06134	119.05902	115
## 736	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 737	NaN	0.00000000	0.00000000	121.38046	121.37814	160
## 738	NaN	0.00000000	0.00000000	117.94816	117.94584	58
## 739	NaN	0.00000000	0.00000000	123.00384	123.00152	108
## 740	NaN	0.00000000	0.00000000	119.52516	119.52284	113
## 741	NaN	0.00000000	0.00000000	123.00384	123.00152	140
## 742	NaN	0.00000000	0.00000000	119.52516	119.52284	118
## 743	NaN	0.00000000	0.00000000	123.00384	123.00152	111
## 744	4.185651e-07	-3.21447408	-1.41960133	116.18771	116.18539	88
## 745	4.185652e-07	-6.42894815	-2.83920265	118.36976	118.36745	133
## 746	NaN	0.00000000	0.00000000	120.91663	120.91431	106
## 747	NaN	0.00000000	0.00000000	118.13369	118.13137	137
## 748	NaN	0.00000000	0.00000000	118.04092	118.03861	129
## 749	NaN	0.00000000	0.00000000	120.45281	120.45049	132
## 750	4.185648e-07	-7.71473772	-3.40704324	117.44295	117.44063	112
## 751	NaN	0.00000000	0.00000000	119.98898	119.98667	122
## 752	NaN	0.00000000	0.00000000	123.00384	123.00152	76

## 753	4.185652e-07	-6.42894815	-2.83920265	118.36976	118.36745	122
## 754	NaN	0.00000000	0.00000000	123.00384	123.00152	159
## 755	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 756	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	104
## 757	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 758	4.185651e-07	-6.42894815	-2.83920265	116.74638	116.74406	115
## 759	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	159
## 760	NaN	0.00000000	0.00000000	123.00384	123.00152	145
## 761	NaN	0.00000000	0.00000000	123.00384	123.00152	121
## 762	NaN	0.00000000	0.00000000	119.98898	119.98667	112
## 763	NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 764	NaN	0.00000000	0.00000000	123.00384	123.00152	133
## 765	NaN	0.00000000	0.00000000	123.00384	123.00152	136
## 766	NaN	0.00000000	0.00000000	117.57710	117.57478	148
## 767	NaN	0.00000000	0.00000000	123.00384	123.00152	133
## 768	4.185651e-07	-2.57157926	-1.13568106	118.59918	118.59686	108
## 769	NaN	0.00000000	0.00000000	123.00384	123.00152	91
## 770	NaN	0.00000000	0.00000000	119.98898	119.98667	94
## 771	NaN	0.00000000	0.00000000	119.52516	119.52284	123
## 772	NaN	0.00000000	0.00000000	123.00384	123.00152	129
## 773	NaN	0.00000000	0.00000000	119.52516	119.52284	108
## 774	NaN	0.00000000	0.00000000	119.06134	119.05902	144
## 775	NaN	0.00000000	0.00000000	119.06134	119.05902	132
## 776	NaN	0.00000000	0.00000000	118.22645	118.22414	130
## 777	NaN	0.00000000	0.00000000	119.06134	119.05902	105
## 778	NaN	0.00000000	0.00000000	119.98898	119.98667	90
## 779	NaN	0.00000000	0.00000000	118.13369	118.13137	154
## 780	4.185651e-07	-2.57157926	-1.13568106	115.72347	115.72115	103
## 781	4.185648e-07	-9.64342215	-4.25880406	112.11022	112.10791	87
## 782	NaN	0.00000000	0.00000000	120.91663	120.91431	133
## 783	NaN	0.00000000	0.00000000	120.91663	120.91431	117
## 784	NaN	0.00000000	0.00000000	123.00384	123.00152	152
## 785	NaN	0.00000000	0.00000000	119.52516	119.52284	119
## 786	NaN	0.00000000	0.00000000	119.06134	119.05902	108
## 787	NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 788	4.185651e-07	-1.92868445	-0.85176080	119.06259	119.06027	89
## 789	NaN	0.00000000	0.00000000	123.00384	123.00152	132
## 790	NaN	0.00000000	0.00000000	119.98898	119.98667	130
## 791	NaN	0.00000000	0.00000000	123.00384	123.00152	124

## 792	NaN	0.00000000	0.00000000	123.00384	123.00152	107
## 793	NaN	0.00000000	0.00000000	119.06134	119.05902	125
## 794	NaN	0.00000000	0.00000000	119.06134	119.05902	117
## 795	NaN	0.00000000	0.00000000	118.59751	118.59520	117
## 796	NaN	0.00000000	0.00000000	118.78304	118.78073	125
## 797	NaN	0.00000000	0.00000000	119.52516	119.52284	106
## 798	4.185651e-07	-6.42894815	-2.83920265	116.74638	116.74406	130
## 799	NaN	0.00000000	0.00000000	121.38046	121.37814	129
## 800	NaN	0.00000000	0.00000000	119.06134	119.05902	144
## 801	NaN	0.00000000	0.00000000	117.85540	117.85308	104
## 802	NaN	0.00000000	0.00000000	120.91663	120.91431	110
## 803	4.185651e-07	-6.42894815	-2.83920265	113.31408	113.31177	113
## 804	NaN	0.00000000	0.00000000	123.00384	123.00152	93
## 805	NaN	0.00000000	0.00000000	121.38046	121.37814	106
## 806	NaN	0.00000000	0.00000000	120.91663	120.91431	113
## 807	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	120
## 808	NaN	0.00000000	0.00000000	119.52516	119.52284	116
## 809	NaN	0.00000000	0.00000000	123.00384	123.00152	129
## 810	NaN	0.00000000	0.00000000	117.76263	117.76031	106
## 811	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 812	NaN	0.00000000	0.00000000	118.78304	118.78073	112
## 813	NaN	0.00000000	0.00000000	117.76263	117.76031	123
## 814	NaN	0.00000000	0.00000000	121.38046	121.37814	129
## 815	NaN	0.00000000	0.00000000	117.76263	117.76031	100
## 816	4.185655e-07	-1.28578964	-0.56784052	116.46476	116.46244	97
## 817	NaN	0.00000000	0.00000000	123.00384	123.00152	127
## 818	NaN	0.00000000	0.00000000	119.98898	119.98667	128
## 819	NaN	0.00000000	0.00000000	118.13369	118.13137	122
## 820	NaN	0.00000000	0.00000000	123.00384	123.00152	93
## 821	4.185651e-07	-6.42894815	-2.83920265	114.14897	114.14665	90
## 822	NaN	0.00000000	0.00000000	119.06134	119.05902	73
## 823	NaN	0.00000000	0.00000000	119.52516	119.52284	133
## 824	NaN	0.00000000	0.00000000	118.78304	118.78073	112
## 825	NaN	0.00000000	0.00000000	118.41198	118.40967	98
## 826	NaN	0.00000000	0.00000000	120.45281	120.45049	136
## 827	NaN	0.00000000	0.00000000	118.22645	118.22414	78
## 828	NaN	0.00000000	0.00000000	120.91663	120.91431	107
## 829	NaN	0.00000000	0.00000000	123.00384	123.00152	147
## 830	4.185655e-07	-12.85789641	-5.67840520	110.72083	110.71852	149

## 831	NaN	0.00000000	0.00000000	120.45281	120.45049	106
## 832	4.185651e-07	-6.42894815	-2.83920265	116.74638	116.74406	97
## 833	NaN	0.00000000	0.00000000	123.00384	123.00152	134
## 834	NaN	0.00000000	0.00000000	119.06134	119.05902	136
## 835	NaN	0.00000000	0.00000000	119.52516	119.52284	136
## 836	NaN	0.00000000	0.00000000	119.06134	119.05902	131
## 837	NaN	0.00000000	0.00000000	119.52516	119.52284	112
## 838	NaN	0.00000000	0.00000000	118.13369	118.13137	105
## 839	NaN	0.00000000	0.00000000	118.78304	118.78073	120
## 840	NaN	0.00000000	0.00000000	120.91663	120.91431	120
## 841	NaN	0.00000000	0.00000000	119.52516	119.52284	115
## 842	NaN	0.00000000	0.00000000	119.98898	119.98667	120
## 843	NaN	0.00000000	0.00000000	123.00384	123.00152	141
## 844	4.185651e-07	-3.21447408	-1.41960133	119.06342	119.06110	119
## 845	NaN	0.00000000	0.00000000	119.52516	119.52284	114
## 846	4.185651e-07	-6.42894815	-2.83920265	115.35491	115.35259	143
## 847	NaN	0.00000000	0.00000000	123.00384	123.00152	113
## 848	NaN	0.00000000	0.00000000	119.06134	119.05902	118
## 849	NaN	0.00000000	0.00000000	123.00384	123.00152	126
## 850	NaN	0.00000000	0.00000000	120.91663	120.91431	120
## 851	NaN	0.00000000	0.00000000	119.98898	119.98667	139
## 852	NaN	0.00000000	0.00000000	123.00384	123.00152	104
## 853	NaN	0.00000000	0.00000000	120.91663	120.91431	141
## 854	NaN	0.00000000	0.00000000	119.52516	119.52284	114
## 855	NaN	0.00000000	0.00000000	123.00384	123.00152	111
## 856	NaN	0.00000000	0.00000000	117.48434	117.48202	94
## 857	NaN	0.00000000	0.00000000	119.06134	119.05902	134
## 858	NaN	0.00000000	0.00000000	120.45281	120.45049	113
## 859	NaN	0.00000000	0.00000000	117.20604	117.20373	116
## 860	NaN	0.00000000	0.00000000	117.57710	117.57478	114
## 861	NaN	0.00000000	0.00000000	118.69028	118.68796	115
## 862	NaN	0.00000000	0.00000000	118.22645	118.22414	122
## 863	4.185655e-07	-12.85789641	-5.67840520	108.86554	108.86322	118
## 864	NaN	0.00000000	0.00000000	118.78304	118.78073	115
## 865	NaN	0.00000000	0.00000000	117.85540	117.85308	104
## 866	NaN	0.00000000	0.00000000	117.85540	117.85308	134
## 867	NaN	0.00000000	0.00000000	118.22645	118.22414	143
## 868	NaN	0.00000000	0.00000000	121.38046	121.37814	143
## 869	NaN	0.00000000	0.00000000	117.94816	117.94584	106

## 870	NaN	0.00000000	0.00000000	120.45281	120.45049	127
## 871	NaN	0.00000000	0.00000000	119.52516	119.52284	122
## 872	NaN	0.00000000	0.00000000	118.78304	118.78073	115
## 873	NaN	0.00000000	0.00000000	118.41198	118.40967	139
## 874	4.185651e-07	-6.42894815	-2.83920265	113.87067	113.86836	114
## 875	NaN	0.00000000	0.00000000	119.98898	119.98667	108
## 876	NaN	0.00000000	0.00000000	118.04092	118.03861	127
## 877	NaN	0.00000000	0.00000000	117.94816	117.94584	111
## 878	NaN	0.00000000	0.00000000	118.50475	118.50243	91
## 879	NaN	0.00000000	0.00000000	117.85540	117.85308	96
## 880	4.185651e-07	-6.42894815	-2.83920265	113.49961	113.49730	103
## 881	NaN	0.00000000	0.00000000	117.85540	117.85308	78
## 882	NaN	0.00000000	0.00000000	119.06134	119.05902	98
## 883	4.185655e-07	-19.28684461	-8.51760780	105.15911	105.15679	94
## 884	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	135
## 885	4.185655e-07	-12.85789641	-5.67840520	108.77277	108.77046	124
## 886	NaN	0.00000000	0.00000000	117.48434	117.48202	108
## 887	4.185651e-07	-6.42894815	-2.83920265	114.14897	114.14665	128
## 888	NaN	0.00000000	0.00000000	118.04092	118.03861	139
## 889	NaN	0.00000000	0.00000000	119.52516	119.52284	128
## 890	NaN	0.00000000	0.00000000	120.91663	120.91431	102
## 891	NaN	0.00000000	0.00000000	117.29881	117.29649	136
## 892	NaN	0.00000000	0.00000000	123.00384	123.00152	146
## 893	NaN	0.00000000	0.00000000	118.50475	118.50243	136
## 894	NaN	0.00000000	0.00000000	120.91663	120.91431	89
## 895	4.185655e-07	-19.28684461	-8.51760780	103.30382	103.30150	102
## 896	4.185655e-07	-19.28684461	-8.51760780	103.39658	103.39426	138
## 897	NaN	0.00000000	0.00000000	117.76263	117.76031	128
## 898	NaN	0.00000000	0.00000000	119.52516	119.52284	124
## 899	NaN	0.00000000	0.00000000	118.13369	118.13137	122
## 900	4.185651e-07	-2.57157926	-1.13568106	115.53794	115.53562	101
## 901	NaN	0.00000000	0.00000000	120.45281	120.45049	118
## 902	NaN	0.00000000	0.00000000	119.98898	119.98667	70
## 903	NaN	0.00000000	0.00000000	119.06134	119.05902	136
## 904	NaN	0.00000000	0.00000000	120.45281	120.45049	152
## 905	NaN	0.00000000	0.00000000	118.78304	118.78073	98
## 906	4.185651e-07	-6.42894815	-2.83920265	113.22132	113.21900	68
## 907	4.185651e-07	-1.92868445	-0.85176080	116.83623	116.83391	101
## 908	NaN	0.00000000	0.00000000	117.20604	117.20373	94

## 909	NaN	0.00000000	0.00000000	117.02051	117.01820	117
## 910	NaN	0.00000000	0.00000000	117.94816	117.94584	96
## 911	NaN	0.00000000	0.00000000	121.38046	121.37814	122
## 912	NaN	0.00000000	0.00000000	120.91663	120.91431	132
## 913	4.185655e-07	-12.85789641	-5.67840520	108.03066	108.02834	104
## 914	NaN	0.00000000	0.00000000	119.52516	119.52284	130
## 915	NaN	0.00000000	0.00000000	118.78304	118.78073	84
## 916	NaN	0.00000000	0.00000000	120.45281	120.45049	159
## 917	4.185651e-07	-1.92868445	-0.85176080	116.27964	116.27733	115
## 918	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	126
## 919	4.185651e-07	-4.50026371	-1.98744186	115.81748	115.81517	132
## 920	NaN	0.00000000	0.00000000	121.38046	121.37814	101
## 921	4.185655e-07	-12.85789641	-5.67840520	110.25701	110.25469	87
## 922	NaN	0.00000000	0.00000000	117.39157	117.38925	147
## 923	NaN	0.00000000	0.00000000	118.69028	118.68796	108
## 924	NaN	0.00000000	0.00000000	119.98898	119.98667	103
## 925	NaN	0.00000000	0.00000000	120.45281	120.45049	128
## 926	4.185655e-07	-1.28578964	-0.56784052	116.65029	116.64797	97
## 927	NaN	0.00000000	0.00000000	120.91663	120.91431	113
## 928	NaN	0.00000000	0.00000000	121.38046	121.37814	128
## 929	4.185651e-07	-6.42894815	-2.83920265	113.68514	113.68283	74
## 930	NaN	0.00000000	0.00000000	117.39157	117.38925	95
## 931	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 932	4.185655e-07	-12.85789641	-5.67840520	108.86554	108.86322	129
## 933	NaN	0.00000000	0.00000000	120.45281	120.45049	117
## 934	NaN	0.00000000	0.00000000	119.98898	119.98667	109
## 935	NaN	0.00000000	0.00000000	117.57710	117.57478	109
## 936	4.185651e-07	-3.21447408	-1.41960133	115.72389	115.72157	129
## 937	NaN	0.00000000	0.00000000	118.31922	118.31690	144
## 938	NaN	0.00000000	0.00000000	119.52516	119.52284	131
## 939	NaN	0.00000000	0.00000000	119.98898	119.98667	104
## 940	NaN	0.00000000	0.00000000	118.41198	118.40967	120
## 941	4.185651e-07	-6.42894815	-2.83920265	114.42726	114.42494	99
## 942	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	103
## 943	NaN	0.00000000	0.00000000	123.00384	123.00152	123
## 944	NaN	0.00000000	0.00000000	121.38046	121.37814	134
## 945	NaN	0.00000000	0.00000000	118.59751	118.59520	147
## 946	4.185655e-07	-12.85789641	-5.67840520	110.25701	110.25469	83
## 947	NaN	0.00000000	0.00000000	119.98898	119.98667	91

## 948	NaN	0.00000000	0.00000000	123.00384	123.00152	124
## 949	NaN	0.00000000	0.00000000	123.00384	123.00152	141
## 950	NaN	0.00000000	0.00000000	123.00384	123.00152	56
## 951	NaN	0.00000000	0.00000000	119.98898	119.98667	139
## 952	NaN	0.00000000	0.00000000	118.69028	118.68796	133
## 953	NaN	0.00000000	0.00000000	120.91663	120.91431	144
## 954	NaN	0.00000000	0.00000000	117.66987	117.66755	130
## 955	4.185651e-07	-3.21447408	-1.41960133	118.13577	118.13345	102
## 956	NaN	0.00000000	0.00000000	120.45281	120.45049	109
## 957	NaN	0.00000000	0.00000000	117.11328	117.11096	104
## 958	4.185651e-07	-4.50026371	-1.98744186	115.35366	115.35134	134
## 959	NaN	0.00000000	0.00000000	123.00384	123.00152	91
## 960	NaN	0.00000000	0.00000000	117.29881	117.29649	159
## 961	NaN	0.00000000	0.00000000	117.39157	117.38925	93
## 962	4.185648e-07	-9.64342215	-4.25880406	112.11022	112.10791	131
## 963	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 964	NaN	0.00000000	0.00000000	117.29881	117.29649	126
## 965	NaN	0.00000000	0.00000000	118.59751	118.59520	107
## 966	NaN	0.00000000	0.00000000	118.50475	118.50243	76
## 967	NaN	0.00000000	0.00000000	117.94816	117.94584	122
## 968	NaN	0.00000000	0.00000000	119.06134	119.05902	104
## 969	4.185651e-07	-2.57157926	-1.13568106	115.44518	115.44286	92
## 970	4.185651e-07	-6.42894815	-2.83920265	113.12856	113.12624	101
## 971	NaN	0.00000000	0.00000000	117.11328	117.11096	109
## 972	NaN	0.00000000	0.00000000	123.00384	123.00152	113
## 973	NaN	0.00000000	0.00000000	120.91663	120.91431	136
## 974	NaN	0.00000000	0.00000000	119.06134	119.05902	147
## 975	4.185648e-07	-9.64342215	-4.25880406	111.64640	111.64408	104
## 976	4.185648e-07	-9.64342215	-4.25880406	111.73917	111.73685	117
## 977	4.185648e-07	-25.71579240	-11.35681081	98.94803	98.94572	89
## 978	NaN	0.00000000	0.00000000	118.22645	118.22414	101
## 979	NaN	0.00000000	0.00000000	118.59751	118.59520	121
## 980	4.185651e-07	-6.42894815	-2.83920265	114.14897	114.14665	120
## 981	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 982	NaN	0.00000000	0.00000000	118.04092	118.03861	112
## 983	NaN	0.00000000	0.00000000	123.00384	123.00152	125
## 984	NaN	0.00000000	0.00000000	117.20604	117.20373	128
## 985	NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 986	4.185655e-07	-12.85789641	-5.67840520	108.68001	108.67769	104

## 987	NaN	0.00000000	0.00000000	120.91663	120.91431	123
## 988	NaN	0.00000000	0.00000000	118.78304	118.78073	123
## 989	NaN	0.00000000	0.00000000	117.48434	117.48202	164
## 990	NaN	0.00000000	0.00000000	117.02051	117.01820	113
## 991	NaN	0.00000000	0.00000000	123.00384	123.00152	102
## 992	NaN	0.00000000	0.00000000	121.38046	121.37814	113
## 993	NaN	0.00000000	0.00000000	118.31922	118.31690	99
## 994	NaN	0.00000000	0.00000000	119.52516	119.52284	127
## 995	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	132
## 996	4.185655e-07	-12.85789641	-5.67840520	109.51489	109.51258	121
## 997	NaN	0.00000000	0.00000000	118.41198	118.40967	91
## 998	4.185651e-07	-6.42894815	-2.83920265	112.38644	112.38412	109
## 999	NaN	0.00000000	0.00000000	121.38046	121.37814	112
## 1000	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 1001	NaN	0.00000000	0.00000000	118.41198	118.40967	149
## 1002	4.185651e-07	-6.42894815	-2.83920265	113.96344	113.96112	103
## 1003	NaN	0.00000000	0.00000000	121.38046	121.37814	120
## 1004	NaN	0.00000000	0.00000000	118.41198	118.40967	144
## 1005	NaN	0.00000000	0.00000000	118.69028	118.68796	116
## 1006	4.185651e-07	-6.42894815	-2.83920265	112.57197	112.56965	112
## 1007	NaN	0.00000000	0.00000000	118.69028	118.68796	128
## 1008	NaN	0.00000000	0.00000000	119.52516	119.52284	137
## 1009	NaN	0.00000000	0.00000000	119.98898	119.98667	127
## 1010	4.185648e-07	-9.64342215	-4.25880406	111.83193	111.82961	101
## 1011	4.185648e-07	-9.64342215	-4.25880406	113.03787	113.03555	92
## 1012	NaN	0.00000000	0.00000000	119.06134	119.05902	101
## 1013	NaN	0.00000000	0.00000000	118.78304	118.78073	121
## 1014	NaN	0.00000000	0.00000000	117.57710	117.57478	116
## 1015	NaN	0.00000000	0.00000000	119.52516	119.52284	127
## 1016	NaN	0.00000000	0.00000000	117.94816	117.94584	133
## 1017	NaN	0.00000000	0.00000000	121.38046	121.37814	128
## 1018	NaN	0.00000000	0.00000000	118.78304	118.78073	123
## 1019	NaN	0.00000000	0.00000000	119.06134	119.05902	122
## 1020	4.185655e-07	-12.85789641	-5.67840520	109.14383	109.14152	113
## 1021	NaN	0.00000000	0.00000000	117.76263	117.76031	128
## 1022	4.185651e-07	-3.21447408	-1.41960133	116.46601	116.46369	139
## 1023	NaN	0.00000000	0.00000000	117.11328	117.11096	141
## 1024	4.185655e-07	-3.85736892	-1.70352156	115.53877	115.53646	121
## 1025	NaN	0.00000000	0.00000000	119.52516	119.52284	123

## 1026	4.185655e-07	-12.85789641	-5.67840520	108.21619	108.21387	151
## 1027	NaN	0.00000000	0.00000000	117.48434	117.48202	119
## 1028	NaN	0.00000000	0.00000000	118.31922	118.31690	105
## 1029	NaN	0.00000000	0.00000000	119.98898	119.98667	133
## 1030	NaN	0.00000000	0.00000000	119.06134	119.05902	123
## 1031	NaN	0.00000000	0.00000000	119.06134	119.05902	111
## 1032	NaN	0.00000000	0.00000000	119.52516	119.52284	123
## 1033	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	123
## 1034	NaN	0.00000000	0.00000000	118.22645	118.22414	130
## 1035	NaN	0.00000000	0.00000000	119.06134	119.05902	154
## 1036	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 1037	NaN	0.00000000	0.00000000	123.00384	123.00152	90
## 1038	NaN	0.00000000	0.00000000	118.78304	118.78073	114
## 1039	NaN	0.00000000	0.00000000	120.45281	120.45049	123
## 1040	NaN	0.00000000	0.00000000	119.98898	119.98667	123
## 1041	NaN	0.00000000	0.00000000	118.04092	118.03861	136
## 1042	NaN	0.00000000	0.00000000	119.52516	119.52284	104
## 1043	4.185655e-07	-12.85789641	-5.67840520	109.32936	109.32705	128
## 1044	NaN	0.00000000	0.00000000	120.45281	120.45049	128
## 1045	NaN	0.00000000	0.00000000	117.94816	117.94584	160
## 1046	NaN	0.00000000	0.00000000	119.98898	119.98667	111
## 1047	NaN	0.00000000	0.00000000	120.45281	120.45049	141
## 1048	NaN	0.00000000	0.00000000	119.98898	119.98667	122
## 1049	NaN	0.00000000	0.00000000	120.45281	120.45049	98
## 1050	4.185651e-07	-6.42894815	-2.83920265	112.57197	112.56965	96
## 1051	NaN	0.00000000	0.00000000	118.41198	118.40967	127
## 1052	NaN	0.00000000	0.00000000	120.91663	120.91431	119
## 1053	NaN	0.00000000	0.00000000	119.06134	119.05902	43
## 1054	NaN	0.00000000	0.00000000	119.06134	119.05902	100
## 1055	NaN	0.00000000	0.00000000	117.20604	117.20373	139
## 1056	NaN	0.00000000	0.00000000	119.98898	119.98667	128
## 1057	NaN	0.00000000	0.00000000	119.98898	119.98667	115
## 1058	NaN	0.00000000	0.00000000	118.69028	118.68796	121
## 1059	NaN	0.00000000	0.00000000	119.52516	119.52284	134
## 1060	NaN	0.00000000	0.00000000	117.20604	117.20373	120
## 1061	4.185655e-07	-12.85789641	-5.67840520	108.30895	108.30663	104
## 1062	NaN	0.00000000	0.00000000	120.45281	120.45049	170
## 1063	NaN	0.00000000	0.00000000	123.00384	123.00152	132
## 1064	NaN	0.00000000	0.00000000	121.38046	121.37814	126

## 1065	NaN	0.00000000	0.00000000	120.91663	120.91431	142
## 1066	NaN	0.00000000	0.00000000	119.52516	119.52284	103
## 1067	NaN	0.00000000	0.00000000	119.98898	119.98667	112
## 1068	4.185655e-07	-12.85789641	-5.67840520	111.64848	111.64616	117
## 1069	NaN	0.00000000	0.00000000	118.59751	118.59520	131
## 1070	NaN	0.00000000	0.00000000	120.91663	120.91431	115
## 1071	4.185651e-07	-6.42894815	-2.83920265	114.14897	114.14665	118
## 1072	NaN	0.00000000	0.00000000	119.98898	119.98667	106
## 1073	NaN	0.00000000	0.00000000	120.91663	120.91431	126
## 1074	4.185655e-07	-12.85789641	-5.67840520	109.05107	109.04875	104
## 1075	NaN	0.00000000	0.00000000	118.41198	118.40967	143
## 1076	NaN	0.00000000	0.00000000	119.98898	119.98667	156
## 1077	NaN	0.00000000	0.00000000	120.45281	120.45049	137
## 1078	NaN	0.00000000	0.00000000	117.57710	117.57478	126
## 1079	NaN	0.00000000	0.00000000	119.98898	119.98667	134
## 1080	NaN	0.00000000	0.00000000	120.91663	120.91431	89
## 1081	4.185655e-07	-12.85789641	-5.67840520	110.25701	110.25469	64
## 1082	NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 1083	NaN	0.00000000	0.00000000	123.00384	123.00152	121
## 1084	NaN	0.00000000	0.00000000	119.52516	119.52284	109
## 1085	NaN	0.00000000	0.00000000	119.98898	119.98667	38
## 1086	NaN	0.00000000	0.00000000	119.98898	119.98667	128
## 1087	NaN	0.00000000	0.00000000	120.45281	120.45049	132
## 1088	4.185651e-07	-6.42894815	-2.83920265	114.05620	114.05389	143
## 1089	NaN	0.00000000	0.00000000	119.06134	119.05902	100
## 1090	4.185655e-07	-3.85736892	-1.70352156	118.13619	118.13387	107
## 1091	NaN	0.00000000	0.00000000	119.52516	119.52284	103
## 1092	NaN	0.00000000	0.00000000	120.45281	120.45049	157
## 1093	NaN	0.00000000	0.00000000	118.04092	118.03861	126
## 1094	NaN	0.00000000	0.00000000	118.69028	118.68796	125
## 1095	NaN	0.00000000	0.00000000	117.29881	117.29649	102
## 1096	NaN	0.00000000	0.00000000	118.69028	118.68796	98
## 1097	NaN	0.00000000	0.00000000	118.22645	118.22414	96
## 1098	NaN	0.00000000	0.00000000	119.06134	119.05902	134
## 1099	NaN	0.00000000	0.00000000	123.00384	123.00152	94
## 1100	NaN	0.00000000	0.00000000	119.06134	119.05902	84
## 1101	NaN	0.00000000	0.00000000	118.50475	118.50243	155
## 1102	NaN	0.00000000	0.00000000	119.52516	119.52284	117
## 1103	NaN	0.00000000	0.00000000	120.91663	120.91431	169

## 1104	4.185655e-07	-1.28578964	-0.56784052	116.37199	116.36967	105
## 1105	NaN	0.00000000	0.00000000	119.06134	119.05902	118
## 1106	NaN	0.00000000	0.00000000	118.78304	118.78073	113
## 1107	NaN	0.00000000	0.00000000	118.13369	118.13137	114
## 1108	4.185655e-07	-12.85789641	-5.67840520	108.58724	108.58493	116
## 1109	4.185651e-07	-6.42894815	-2.83920265	112.75750	112.75518	79
## 1110	NaN	0.00000000	0.00000000	119.52516	119.52284	109
## 1111	NaN	0.00000000	0.00000000	121.38046	121.37814	146
## 1112	NaN	0.00000000	0.00000000	119.06134	119.05902	116
## 1113	NaN	0.00000000	0.00000000	117.85540	117.85308	93
## 1114	NaN	0.00000000	0.00000000	123.00384	123.00152	108
## 1115	NaN	0.00000000	0.00000000	117.66987	117.66755	115
## 1116	NaN	0.00000000	0.00000000	123.00384	123.00152	115
## 1117	NaN	0.00000000	0.00000000	117.39157	117.38925	119
## 1118	NaN	0.00000000	0.00000000	119.52516	119.52284	128
## 1119	NaN	0.00000000	0.00000000	118.78304	118.78073	119
## 1120	NaN	0.00000000	0.00000000	117.57710	117.57478	102
## 1121	NaN	0.00000000	0.00000000	118.50475	118.50243	130
## 1122	NaN	0.00000000	0.00000000	123.00384	123.00152	140
## 1123	NaN	0.00000000	0.00000000	119.06134	119.05902	107
## 1124	NaN	0.00000000	0.00000000	117.20604	117.20373	134
## 1125	NaN	0.00000000	0.00000000	119.06134	119.05902	126
## 1126	NaN	0.00000000	0.00000000	119.98898	119.98667	143
## 1127	NaN	0.00000000	0.00000000	117.85540	117.85308	122
## 1128	NaN	0.00000000	0.00000000	118.50475	118.50243	112
## 1129	NaN	0.00000000	0.00000000	119.98898	119.98667	151
## 1130	NaN	0.00000000	0.00000000	118.59751	118.59520	127
## 1131	NaN	0.00000000	0.00000000	117.57710	117.57478	158
## 1132	NaN	0.00000000	0.00000000	123.00384	123.00152	90
## 1133	NaN	0.00000000	0.00000000	120.45281	120.45049	114
## 1134	4.185651e-07	-2.57157926	-1.13568106	116.74388	116.74157	143
## 1135	NaN	0.00000000	0.00000000	118.78304	118.78073	109
## 1136	NaN	0.00000000	0.00000000	119.98898	119.98667	126
## 1137	4.185655e-07	-3.85736892	-1.70352156	118.13619	118.13387	153
## 1138	NaN	0.00000000	0.00000000	119.98898	119.98667	123
## 1139	NaN	0.00000000	0.00000000	118.69028	118.68796	72
## 1140	4.185651e-07	-6.42894815	-2.83920265	114.42726	114.42494	121
## 1141	4.185651e-07	-1.92868445	-0.85176080	117.67111	117.66880	137
## 1142	NaN	0.00000000	0.00000000	119.98898	119.98667	64

## 1143	NaN	0.00000000	0.00000000	118.69028	118.68796	119
## 1144	NaN	0.00000000	0.00000000	118.13369	118.13137	137
## 1145	NaN	0.00000000	0.00000000	117.85540	117.85308	98
## 1146	NaN	0.00000000	0.00000000	119.06134	119.05902	126
## 1147	NaN	0.00000000	0.00000000	119.52516	119.52284	142
## 1148	NaN	0.00000000	0.00000000	117.02051	117.01820	122
## 1149	NaN	0.00000000	0.00000000	119.06134	119.05902	112
## 1150	NaN	0.00000000	0.00000000	117.57710	117.57478	142
## 1151	NaN	0.00000000	0.00000000	123.00384	123.00152	108
## 1152	NaN	0.00000000	0.00000000	118.78304	118.78073	128
## 1153	NaN	0.00000000	0.00000000	119.52516	119.52284	124
## 1154	NaN	0.00000000	0.00000000	118.13369	118.13137	104
## 1155	NaN	0.00000000	0.00000000	120.91663	120.91431	118
## 1156	NaN	0.00000000	0.00000000	118.22645	118.22414	96
## 1157	NaN	0.00000000	0.00000000	123.00384	123.00152	106
## 1158	NaN	0.00000000	0.00000000	117.20604	117.20373	114
## 1159	NaN	0.00000000	0.00000000	123.00384	123.00152	142
## 1160	NaN	0.00000000	0.00000000	117.85540	117.85308	74
## 1161	NaN	0.00000000	0.00000000	120.45281	120.45049	146
## 1162	NaN	0.00000000	0.00000000	118.78304	118.78073	128
## 1163	NaN	0.00000000	0.00000000	118.59751	118.59520	115
## 1164	NaN	0.00000000	0.00000000	117.85540	117.85308	139
## 1165	NaN	0.00000000	0.00000000	123.00384	123.00152	143
## 1166	NaN	0.00000000	0.00000000	123.00384	123.00152	125
## 1167	4.185651e-07	-3.21447408	-1.41960133	116.00218	115.99986	120
## 1168	4.185651e-07	-3.21447408	-1.41960133	117.67195	117.66963	120
## 1169	NaN	0.00000000	0.00000000	118.59751	118.59520	135
## 1170	NaN	0.00000000	0.00000000	117.20604	117.20373	91
## 1171	NaN	0.00000000	0.00000000	118.69028	118.68796	117
## 1172	NaN	0.00000000	0.00000000	119.06134	119.05902	119
## 1173	4.185654e-07	-12.85789640	-5.67840521	113.73569	113.73337	128
## 1174	NaN	0.00000000	0.00000000	123.00384	123.00152	135
## 1175	4.185655e-07	-3.85736892	-1.70352156	116.28089	116.27857	91
## 1176	NaN	0.00000000	0.00000000	117.02051	117.01820	108
## 1177	NaN	0.00000000	0.00000000	119.06134	119.05902	110
## 1178	NaN	0.00000000	0.00000000	121.38046	121.37814	136
## 1179	NaN	0.00000000	0.00000000	123.00384	123.00152	126
## 1180	NaN	0.00000000	0.00000000	123.00384	123.00152	115
## 1181	NaN	0.00000000	0.00000000	119.98898	119.98667	136

## 1182	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 1183	NaN	0.00000000	0.00000000	117.02051	117.01820	117
## 1184	NaN	0.00000000	0.00000000	123.00384	123.00152	152
## 1185	NaN	0.00000000	0.00000000	120.91663	120.91431	124
## 1186	NaN	0.00000000	0.00000000	118.22645	118.22414	115
## 1187	NaN	0.00000000	0.00000000	119.06134	119.05902	134
## 1188	NaN	0.00000000	0.00000000	123.00384	123.00152	146
## 1189	NaN	0.00000000	0.00000000	118.50475	118.50243	125
## 1190	4.185655e-07	-12.85789641	-5.67840520	108.58724	108.58493	89
## 1191	4.185648e-07	-9.64342215	-4.25880406	111.83193	111.82961	128
## 1192	NaN	0.00000000	0.00000000	118.04092	118.03861	133
## 1193	NaN	0.00000000	0.00000000	117.76263	117.76031	112
## 1194	NaN	0.00000000	0.00000000	120.91663	120.91431	143
## 1195	NaN	0.00000000	0.00000000	119.52516	119.52284	157
## 1196	NaN	0.00000000	0.00000000	118.31922	118.31690	99
## 1197	4.185651e-07	-5.14315852	-2.27136212	113.68431	113.68199	96
## 1198	NaN	0.00000000	0.00000000	118.41198	118.40967	128
## 1199	NaN	0.00000000	0.00000000	119.52516	119.52284	122
## 1200	NaN	0.00000000	0.00000000	123.00384	123.00152	119
## 1201	NaN	0.00000000	0.00000000	118.50475	118.50243	160
## 1202	NaN	0.00000000	0.00000000	120.45281	120.45049	108
## 1203	NaN	0.00000000	0.00000000	123.00384	123.00152	114
## 1204	NaN	0.00000000	0.00000000	120.45281	120.45049	115
## 1205	NaN	0.00000000	0.00000000	117.66987	117.66755	131
## 1206	NaN	0.00000000	0.00000000	119.06134	119.05902	118
## 1207	NaN	0.00000000	0.00000000	121.38046	121.37814	149
## 1208	NaN	0.00000000	0.00000000	119.98898	119.98667	114
## 1209	4.185651e-07	-3.21447408	-1.41960133	115.07453	115.07222	133
## 1210	NaN	0.00000000	0.00000000	119.98898	119.98667	112
## 1211	NaN	0.00000000	0.00000000	118.41198	118.40967	101
## 1212	4.185651e-07	-6.42894815	-2.83920265	112.47920	112.47689	86
## 1213	NaN	0.00000000	0.00000000	123.00384	123.00152	125
## 1214	NaN	0.00000000	0.00000000	120.45281	120.45049	135
## 1215	NaN	0.00000000	0.00000000	118.13369	118.13137	105
## 1216	NaN	0.00000000	0.00000000	118.50475	118.50243	107
## 1217	NaN	0.00000000	0.00000000	121.38046	121.37814	97
## 1218	NaN	0.00000000	0.00000000	117.02051	117.01820	158
## 1219	NaN	0.00000000	0.00000000	118.69028	118.68796	123
## 1220	NaN	0.00000000	0.00000000	119.98898	119.98667	110

## 1221	NaN	0.00000000	0.00000000	118.22645	118.22414	74
## 1222	NaN	0.00000000	0.00000000	117.20604	117.20373	93
## 1223	NaN	0.00000000	0.00000000	121.38046	121.37814	159
## 1224	NaN	0.00000000	0.00000000	119.98898	119.98667	114
## 1225	NaN	0.00000000	0.00000000	119.06134	119.05902	142
## 1226	NaN	0.00000000	0.00000000	123.00384	123.00152	139
## 1227	NaN	0.00000000	0.00000000	117.85540	117.85308	132
## 1228	NaN	0.00000000	0.00000000	123.00384	123.00152	151
## 1229	4.185648e-07	-9.64342215	-4.25880406	110.81152	110.80920	111
## 1230	NaN	0.00000000	0.00000000	117.85540	117.85308	115
## 1231	NaN	0.00000000	0.00000000	119.06134	119.05902	120
## 1232	NaN	0.00000000	0.00000000	119.06134	119.05902	155
## 1233	4.185648e-07	-7.71473772	-3.40704324	117.44295	117.44063	131
## 1234	NaN	0.00000000	0.00000000	119.06134	119.05902	124
## 1235	4.185651e-07	-6.42894815	-2.83920265	114.42726	114.42494	127
## 1236	NaN	0.00000000	0.00000000	117.94816	117.94584	125
## 1237	NaN	0.00000000	0.00000000	117.20604	117.20373	106
## 1238	NaN	0.00000000	0.00000000	117.85540	117.85308	144
## 1239	NaN	0.00000000	0.00000000	117.39157	117.38925	109
## 1240	4.185651e-07	-29.57316150	-13.06033220	95.70377	95.70145	121
## 1241	NaN	0.00000000	0.00000000	119.98898	119.98667	111
## 1242	NaN	0.00000000	0.00000000	121.38046	121.37814	145
## 1243	NaN	0.00000000	0.00000000	117.48434	117.48202	131
## 1244	NaN	0.00000000	0.00000000	118.59751	118.59520	129
## 1245	4.185655e-07	-12.85789641	-5.67840520	108.68001	108.67769	92
## 1246	NaN	0.00000000	0.00000000	118.13369	118.13137	111
## 1247	NaN	0.00000000	0.00000000	117.85540	117.85308	91
## 1248	4.185651e-07	-3.21447408	-1.41960133	116.74430	116.74198	124
## 1249	NaN	0.00000000	0.00000000	119.98898	119.98667	130
## 1250	NaN	0.00000000	0.00000000	119.06134	119.05902	137
## 1251	NaN	0.00000000	0.00000000	117.76263	117.76031	128
## 1252	NaN	0.00000000	0.00000000	117.11328	117.11096	133
## 1253	NaN	0.00000000	0.00000000	119.98898	119.98667	68
## 1254	NaN	0.00000000	0.00000000	118.41198	118.40967	97
## 1255	NaN	0.00000000	0.00000000	120.45281	120.45049	124
## 1256	NaN	0.00000000	0.00000000	121.38046	121.37814	129
## 1257	NaN	0.00000000	0.00000000	123.00384	123.00152	117
## 1258	NaN	0.00000000	0.00000000	119.52516	119.52284	93
## 1259	NaN	0.00000000	0.00000000	119.52516	119.52284	103

## 1260	NaN	0.00000000	0.00000000	123.00384	123.00152	134
## 1261	NaN	0.00000000	0.00000000	119.98898	119.98667	101
## 1262	NaN	0.00000000	0.00000000	117.66987	117.66755	137
## 1263	NaN	0.00000000	0.00000000	117.39157	117.38925	153
## 1264	4.185648e-07	-25.71579240	-11.35681081	100.52504	100.52272	96
## 1265	NaN	0.00000000	0.00000000	117.76263	117.76031	103
## 1266	NaN	0.00000000	0.00000000	117.57710	117.57478	112
## 1267	NaN	0.00000000	0.00000000	119.52516	119.52284	108
## 1268	NaN	0.00000000	0.00000000	118.69028	118.68796	97
## 1269	NaN	0.00000000	0.00000000	119.52516	119.52284	99
## 1270	NaN	0.00000000	0.00000000	119.52516	119.52284	130
## 1271	NaN	0.00000000	0.00000000	119.06134	119.05902	148
## 1272	NaN	0.00000000	0.00000000	119.52516	119.52284	119
## 1273	NaN	0.00000000	0.00000000	118.78304	118.78073	89
## 1274	NaN	0.00000000	0.00000000	119.52516	119.52284	128
## 1275	NaN	0.00000000	0.00000000	120.45281	120.45049	130
## 1276	4.185655e-07	-12.85789641	-5.67840520	108.30895	108.30663	120
## 1277	NaN	0.00000000	0.00000000	119.98898	119.98667	146
## 1278	NaN	0.00000000	0.00000000	118.41198	118.40967	102
## 1279	NaN	0.00000000	0.00000000	119.52516	119.52284	132
## 1280	4.185648e-07	-7.71473772	-3.40704324	115.35574	115.35342	90
## 1281	NaN	0.00000000	0.00000000	119.98898	119.98667	112
## 1282	NaN	0.00000000	0.00000000	121.38046	121.37814	119
## 1283	NaN	0.00000000	0.00000000	118.50475	118.50243	145
## 1284	NaN	0.00000000	0.00000000	120.91663	120.91431	125
## 1285	NaN	0.00000000	0.00000000	117.48434	117.48202	127
## 1286	NaN	0.00000000	0.00000000	119.06134	119.05902	134
## 1287	NaN	0.00000000	0.00000000	123.00384	123.00152	139
## 1288	4.185651e-07	-6.42894815	-2.83920265	114.89109	114.88877	106
## 1289	NaN	0.00000000	0.00000000	120.91663	120.91431	69
## 1290	NaN	0.00000000	0.00000000	119.98898	119.98667	114
## 1291	4.185655e-07	-12.85789641	-5.67840520	108.12342	108.12110	111
## 1292	4.185651e-07	-3.21447408	-1.41960133	115.81665	115.81433	123
## 1293	NaN	0.00000000	0.00000000	123.00384	123.00152	172
## 1294	NaN	0.00000000	0.00000000	123.00384	123.00152	128
## 1295	NaN	0.00000000	0.00000000	119.06134	119.05902	138
## 1296	NaN	0.00000000	0.00000000	119.98898	119.98667	77
## 1297	NaN	0.00000000	0.00000000	123.00384	123.00152	137
## 1298	NaN	0.00000000	0.00000000	123.00384	123.00152	93

## 1299	NaN	0.00000000	0.00000000	117.76263	117.76031	160
## 1300	NaN	0.00000000	0.00000000	121.38046	121.37814	104
## 1301	NaN	0.00000000	0.00000000	117.29881	117.29649	115
## 1302	NaN	0.00000000	0.00000000	119.06134	119.05902	176
## 1303	NaN	0.00000000	0.00000000	123.00384	123.00152	87
## 1304	4.185651e-07	-32.14474076	-14.19601326	96.35478	96.35247	90
## 1305	NaN	0.00000000	0.00000000	123.00384	123.00152	116
## 1306	NaN	0.00000000	0.00000000	117.94816	117.94584	134
## 1307	NaN	0.00000000	0.00000000	123.00384	123.00152	86
## 1308	NaN	0.00000000	0.00000000	118.78304	118.78073	110
## 1309	NaN	0.00000000	0.00000000	119.06134	119.05902	97
## 1310	NaN	0.00000000	0.00000000	118.69028	118.68796	109
## 1311	NaN	0.00000000	0.00000000	118.78304	118.78073	108
## 1312	NaN	0.00000000	0.00000000	119.06134	119.05902	126
## 1313	NaN	0.00000000	0.00000000	118.50475	118.50243	100
## 1314	NaN	0.00000000	0.00000000	123.00384	123.00152	137
## 1315	NaN	0.00000000	0.00000000	123.00384	123.00152	115
## 1316	4.185655e-07	-12.85789641	-5.67840520	109.79319	109.79087	128
## 1317	NaN	0.00000000	0.00000000	119.98898	119.98667	131
## 1318	NaN	0.00000000	0.00000000	120.91663	120.91431	130
## 1319	NaN	0.00000000	0.00000000	117.57710	117.57478	129
## 1320	NaN	0.00000000	0.00000000	119.52516	119.52284	114
## 1321	NaN	0.00000000	0.00000000	118.31922	118.31690	111
## 1322	NaN	0.00000000	0.00000000	119.98898	119.98667	192
## 1323	4.185651e-07	-3.21447408	-1.41960133	120.68680	120.68448	87
## 1324	NaN	0.00000000	0.00000000	118.41198	118.40967	98
## 1325	4.185648e-07	-9.64342215	-4.25880406	112.11022	112.10791	115
## 1326	NaN	0.00000000	0.00000000	119.98898	119.98667	151
## 1327	NaN	0.00000000	0.00000000	117.57710	117.57478	96
## 1328	NaN	0.00000000	0.00000000	118.41198	118.40967	54
## 1329	NaN	0.00000000	0.00000000	119.52516	119.52284	110
## 1330	NaN	0.00000000	0.00000000	118.59751	118.59520	125
## 1331	NaN	0.00000000	0.00000000	120.45281	120.45049	108
## 1332	4.185651e-07	-6.42894815	-2.83920265	114.42726	114.42494	112
## 1333	4.185655e-07	-5.78605338	-2.55528234	113.22090	113.21859	128
## 1334	NaN	0.00000000	0.00000000	118.69028	118.68796	131
## 1335	NaN	0.00000000	0.00000000	119.06134	119.05902	87
## 1336	NaN	0.00000000	0.00000000	120.45281	120.45049	125
## 1337	4.185648e-07	-9.64342215	-4.25880406	110.53322	110.53091	104

## 1338	NaN	0.00000000	0.00000000	118.50475	118.50243	149
## 1339	NaN	0.00000000	0.00000000	118.59751	118.59520	166
## 1340	NaN	0.00000000	0.00000000	117.57710	117.57478	113
## 1341	NaN	0.00000000	0.00000000	117.57710	117.57478	139
## 1342	NaN	0.00000000	0.00000000	119.98898	119.98667	102
## 1343	NaN	0.00000000	0.00000000	119.06134	119.05902	139
## 1344	NaN	0.00000000	0.00000000	118.41198	118.40967	119
## 1345	4.185651e-07	-6.42894815	-2.83920265	112.94303	112.94071	91
## 1346	NaN	0.00000000	0.00000000	119.52516	119.52284	153
## 1347	NaN	0.00000000	0.00000000	120.91663	120.91431	87
## 1348	4.185648e-07	-9.64342215	-4.25880406	110.90428	110.90197	80
## 1349	4.185655e-07	-12.85789641	-5.67840520	110.72083	110.71852	124
## 1350	NaN	0.00000000	0.00000000	119.06134	119.05902	149
## 1351	NaN	0.00000000	0.00000000	117.39157	117.38925	135
## 1352	NaN	0.00000000	0.00000000	119.52516	119.52284	132
## 1353	NaN	0.00000000	0.00000000	120.45281	120.45049	142
## 1354	NaN	0.00000000	0.00000000	117.76263	117.76031	130
## 1355	NaN	0.00000000	0.00000000	119.52516	119.52284	123
## 1356	NaN	0.00000000	0.00000000	121.38046	121.37814	126
## 1357	NaN	0.00000000	0.00000000	119.98898	119.98667	116
## 1358	NaN	0.00000000	0.00000000	119.52516	119.52284	116
## 1359	NaN	0.00000000	0.00000000	117.57710	117.57478	99
## 1360	4.185651e-07	-1.92868445	-0.85176080	116.74347	116.74115	119
## 1361	NaN	0.00000000	0.00000000	119.98898	119.98667	122
## 1362	4.185651e-07	-6.42894815	-2.83920265	112.85026	112.84794	115
## 1363	NaN	0.00000000	0.00000000	119.06134	119.05902	111
## 1364	NaN	0.00000000	0.00000000	117.94816	117.94584	108
## 1365	NaN	0.00000000	0.00000000	119.98898	119.98667	140
## 1366	NaN	0.00000000	0.00000000	119.98898	119.98667	119
## 1367	NaN	0.00000000	0.00000000	119.52516	119.52284	134
## 1368	4.185648e-07	-9.64342215	-4.25880406	111.18258	111.18026	130
## 1369	NaN	0.00000000	0.00000000	117.76263	117.76031	107
## 1370	NaN	0.00000000	0.00000000	120.91663	120.91431	147
## 1371	NaN	0.00000000	0.00000000	117.39157	117.38925	109
## 1372	NaN	0.00000000	0.00000000	120.45281	120.45049	114
## 1373	NaN	0.00000000	0.00000000	118.69028	118.68796	118
## 1374	NaN	0.00000000	0.00000000	120.91663	120.91431	110
## 1375	NaN	0.00000000	0.00000000	120.91663	120.91431	127
## 1376	4.185655e-07	-12.85789641	-5.67840520	109.32936	109.32705	102

## 1377	NaN	0.00000000	0.00000000	121.38046	121.37814	158
## 1378	NaN	0.00000000	0.00000000	119.06134	119.05902	113
## 1379	NaN	0.00000000	0.00000000	118.41198	118.40967	121
## 1380	NaN	0.00000000	0.00000000	117.11328	117.11096	130
## 1381	NaN	0.00000000	0.00000000	117.48434	117.48202	85
## 1382	NaN	0.00000000	0.00000000	118.13369	118.13137	87
## 1383	NaN	0.00000000	0.00000000	119.06134	119.05902	135
## 1384	NaN	0.00000000	0.00000000	119.52516	119.52284	110
## 1385	NaN	0.00000000	0.00000000	117.48434	117.48202	146
## 1386	NaN	0.00000000	0.00000000	123.00384	123.00152	135
## 1387	NaN	0.00000000	0.00000000	119.52516	119.52284	118
## 1388	NaN	0.00000000	0.00000000	120.45281	120.45049	111
## 1389	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	109
## 1390	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	133
## 1391	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	129
## 1392	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	126
## 1393	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	134
## 1394	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	118
## 1395	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	140
## 1396	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	86
## 1397	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	121
## 1398	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	129
## 1399	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	101
## 1400	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	133
## 1401	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	61
## 1402	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	104
## 1403	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	92
## 1404	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	122
## 1405	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	159
## 1406	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	154
## 1407	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	120
## 1408	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	138
## 1409	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	127
## 1410	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
## 1411	1.481950e-03	0.55114230	2.32456459	115.63154	115.63214	129
## 1412	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	129
## 1413	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	156
## 1414	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	124
## 1415	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	79

## 1416	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	112
## 1417	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
## 1418	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	134
## 1419	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
## 1420	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	124
## 1421	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	122
## 1422	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	104
## 1423	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	105
## 1424	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	113
## 1425	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	131
## 1426	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	107
## 1427	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	115
## 1428	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	97
## 1429	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
## 1430	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	132
## 1431	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	108
## 1432	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	114
## 1433	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	134
## 1434	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	134
## 1435	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	141
## 1436	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	84
## 1437	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	88
## 1438	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	130
## 1439	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	132
## 1440	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	133
## 1441	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	108
## 1442	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	92
## 1443	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	127
## 1444	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	131
## 1445	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	104
## 1446	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	122
## 1447	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	97
## 1448	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	122
## 1449	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	118
## 1450	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	140
## 1451	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	131
## 1452	1.481951e-03	0.01777878	0.07498596	112.38644	112.38704	104
## 1453	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	114
## 1454	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	141

## 1455	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
## 1456	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	152
## 1457	1.481951e-03	0.26668174	1.12478934	108.40172	108.40231	119
## 1458	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	135
## 1459	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	138
## 1460	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	108
## 1461	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	97
## 1462	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	131
## 1463	1.481951e-03	0.65781496	2.77448036	100.15398	100.15457	115
## 1464	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	123
## 1465	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	115
## 1466	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	132
## 1467	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	133
## 1468	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	125
## 1469	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	117
## 1470	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	116
## 1471	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	152
## 1472	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	101
## 1473	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	107
## 1474	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	136
## 1475	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	120
## 1476	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	127
## 1477	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	123
## 1478	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	135
## 1479	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	86
## 1480	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	97
## 1481	1.481951e-03	0.26668174	1.12478934	113.03579	113.03639	93
## 1482	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	96
## 1483	1.481951e-03	0.48002715	2.02462079	113.59238	113.59298	109
## 1484	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	117
## 1485	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	115
## 1486	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	121
## 1487	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
## 1488	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	118
## 1489	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	134
## 1490	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	156
## 1491	1.481951e-03	0.40891202	1.72467697	116.65070	116.65130	139
## 1492	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	136
## 1493	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	115

## 1494	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	23
## 1495	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	135
## 1496	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	106
## 1497	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	116
## 1498	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	147
## 1499	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	115
## 1500	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	85
## 1501	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	102
## 1502	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	122
## 1503	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	109
## 1504	1.481951e-03	1.33340875	5.62394663	111.18466	111.18526	97
## 1505	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	136
## 1506	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	131
## 1507	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	116
## 1508	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	86
## 1509	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	155
## 1510	1.481951e-03	0.23112417	0.97481742	99.04080	99.04140	122
## 1511	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	105
## 1512	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	131
## 1513	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	126
## 1514	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	127
## 1515	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	125
## 1516	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	98
## 1517	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	144
## 1518	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	91
## 1519	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
## 1520	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	128
## 1521	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	144
## 1522	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	91
## 1523	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	122
## 1524	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	139
## 1525	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	126
## 1526	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	107
## 1527	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	79
## 1528	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	102
## 1529	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	126
## 1530	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	120
## 1531	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	101
## 1532	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	131

##	1533	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
##	1534	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	142
##	1535	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	144
##	1536	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	58
##	1537	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	88
##	1538	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	123
##	1539	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	146
##	1540	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	135
##	1541	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	125
##	1542	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	125
##	1543	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	99
##	1544	1.481951e-03	1.15562091	4.87408708	118.13535	118.13595	120
##	1545	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	114
##	1546	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	88
##	1547	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
##	1548	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	123
##	1549	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	135
##	1550	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	116
##	1551	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	128
##	1552	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	111
##	1553	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	123
##	1554	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	115
##	1555	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	167
##	1556	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	82
##	1557	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	121
##	1558	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	114
##	1559	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	116
##	1560	1.481951e-03	0.30223930	1.27476125	115.44559	115.44619	141
##	1561	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	141
##	1562	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	120
##	1563	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	110
##	1564	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	120
##	1565	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	125
##	1566	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	82
##	1567	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	141
##	1568	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	144
##	1569	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	102
##	1570	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	121
##	1571	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	80

## 1572	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	106
## 1573	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
## 1574	1.481951e-03	1.15562091	4.87408708	115.35491	115.35551	116
## 1575	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	123
## 1576	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	132
## 1577	1.481951e-03	1.68898441	7.12366573	112.11230	112.11290	118
## 1578	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	131
## 1579	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	152
## 1580	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	120
## 1581	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	145
## 1582	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	124
## 1583	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	142
## 1584	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	117
## 1585	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	100
## 1586	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	120
## 1587	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	145
## 1588	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
## 1589	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	166
## 1590	1.481951e-03	1.15562091	4.87408708	116.28172	116.28232	103
## 1591	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	133
## 1592	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	112
## 1593	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	119
## 1594	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	123
## 1595	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	107
## 1596	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	145
## 1597	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	133
## 1598	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	146
## 1599	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	134
## 1600	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	140
## 1601	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	95
## 1602	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	126
## 1603	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	134
## 1604	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	64
## 1605	1.481951e-03	0.97783308	4.12422753	117.67153	117.67213	119
## 1606	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	140
## 1607	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
## 1608	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	103
## 1609	1.481951e-03	1.15562091	4.87408708	110.72083	110.72143	68
## 1610	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	97

## 1611	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	120
## 1612	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	121
## 1613	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	130
## 1614	1.481950e-03	0.55114230	2.32456459	113.77791	113.77851	115
## 1615	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	112
## 1616	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	120
## 1617	1.481950e-03	0.80004528	3.37436795	113.50045	113.50104	103
## 1618	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	100
## 1619	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	117
## 1620	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	126
## 1621	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	142
## 1622	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
## 1623	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	111
## 1624	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	152
## 1625	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	124
## 1626	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	146
## 1627	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	102
## 1628	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	129
## 1629	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	125
## 1630	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	126
## 1631	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	101
## 1632	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	113
## 1633	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	136
## 1634	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	101
## 1635	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
## 1636	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	100
## 1637	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	130
## 1638	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	136
## 1639	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	100
## 1640	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	122
## 1641	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	90
## 1642	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	94
## 1643	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	108
## 1644	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	107
## 1645	1.481951e-03	0.62225739	2.62450845	109.32936	109.32996	119
## 1646	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	106
## 1647	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	113
## 1648	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	132
## 1649	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	99

## 1650	1.481951e-03	0.48002715	2.02462079	113.59238	113.59298	110
## 1651	1.481951e-03	1.15562091	4.87408708	115.35491	115.35551	76
## 1652	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	123
## 1653	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	123
## 1654	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	129
## 1655	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	95
## 1656	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	118
## 1657	1.481951e-03	0.23112417	0.97481742	108.30895	108.30955	115
## 1658	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	133
## 1659	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	139
## 1660	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	124
## 1661	1.481951e-03	0.44446958	1.87464888	108.86554	108.86614	60
## 1662	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	87
## 1663	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	130
## 1664	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	110
## 1665	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	73
## 1666	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	126
## 1667	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	125
## 1668	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	166
## 1669	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	122
## 1670	1.481951e-03	1.15562091	4.87408708	118.13535	118.13595	120
## 1671	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	143
## 1672	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	122
## 1673	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
## 1674	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	126
## 1675	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	156
## 1676	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	129
## 1677	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	120
## 1678	1.481951e-03	1.15562091	4.87408708	119.52558	119.52618	113
## 1679	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	81
## 1680	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	83
## 1681	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	129
## 1682	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	133
## 1683	1.481951e-03	0.65781496	2.77448036	109.42213	109.42273	112
## 1684	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	119
## 1685	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	139
## 1686	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	111
## 1687	1.481951e-03	0.97783308	4.12422753	100.98886	100.98946	81
## 1688	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	127

## 1689	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119
## 1690	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	107
## 1691	1.481951e-03	0.12445148	0.52490169	108.03066	108.03125	98
## 1692	1.481951e-03	0.65781496	2.77448036	114.05620	114.05680	113
## 1693	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	104
## 1694	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	108
## 1695	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	144
## 1696	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	110
## 1697	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	138
## 1698	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	107
## 1699	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
## 1700	1.481951e-03	0.51558472	2.17459270	113.68514	113.68574	144
## 1701	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	136
## 1702	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	110
## 1703	1.481951e-03	0.16000905	0.67487360	108.12342	108.12402	105
## 1704	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
## 1705	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	117
## 1706	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	145
## 1707	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	96
## 1708	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	140
## 1709	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	101
## 1710	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	148
## 1711	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	135
## 1712	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	120
## 1713	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	130
## 1714	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	134
## 1715	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
## 1716	1.481951e-03	0.01777878	0.07498596	110.06940	110.07000	111
## 1717	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	128
## 1718	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	134
## 1719	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	141
## 1720	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	115
## 1721	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	98
## 1722	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	118
## 1723	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	130
## 1724	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	136
## 1725	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	129
## 1726	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	93
## 1727	1.481951e-03	0.44446958	1.87464888	108.86554	108.86614	91

## 1728	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	110
## 1729	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	112
## 1730	1.481951e-03	1.33340875	5.62394663	111.18466	111.18526	112
## 1731	1.481951e-03	0.97783308	4.12422753	113.96427	113.96487	98
## 1732	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	147
## 1733	1.481951e-03	0.26668174	1.12478934	113.96261	113.96320	92
## 1734	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	98
## 1735	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	98
## 1736	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	137
## 1737	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	113
## 1738	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	137
## 1739	1.481951e-03	1.33340875	5.62394663	113.50170	113.50229	71
## 1740	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	129
## 1741	1.481950e-03	0.08889392	0.37492977	112.57197	112.57257	149
## 1742	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	124
## 1743	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	138
## 1744	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	128
## 1745	1.481951e-03	1.15562091	4.87408708	115.35491	115.35551	122
## 1746	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	118
## 1747	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	128
## 1748	1.481950e-03	0.33779689	1.42473313	108.58724	108.58784	142
## 1749	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	127
## 1750	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	112
## 1751	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	113
## 1752	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	112
## 1753	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	82
## 1754	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	141
## 1755	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	107
## 1756	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	117
## 1757	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	127
## 1758	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	133
## 1759	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	118
## 1760	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	144
## 1761	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	109
## 1762	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	79
## 1763	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	124
## 1764	1.481951e-03	0.19556662	0.82484551	112.85026	112.85086	130
## 1765	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	271
## 1766	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	160

## 1767	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	127
## 1768	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	108
## 1769	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	90
## 1770	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	140
## 1771	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	126
## 1772	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	110
## 1773	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	127
## 1774	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	101
## 1775	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	92
## 1776	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	121
## 1777	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	102
## 1778	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	125
## 1779	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	141
## 1780	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	121
## 1781	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	127
## 1782	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	119
## 1783	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	106
## 1784	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	105
## 1785	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	104
## 1786	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	131
## 1787	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	96
## 1788	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	141
## 1789	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	93
## 1790	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	114
## 1791	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	112
## 1792	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	138
## 1793	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	136
## 1794	1.481951e-03	0.16000905	0.67487360	108.12342	108.12402	113
## 1795	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	105
## 1796	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	120
## 1797	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	35
## 1798	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	149
## 1799	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	122
## 1800	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	146
## 1801	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	161
## 1802	1.481951e-03	0.05333635	0.22495787	107.84513	107.84573	142
## 1803	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	119
## 1804	1.481951e-03	0.12445148	0.52490169	115.44518	115.44578	83
## 1805	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	136

## 1806	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	116
## 1807	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	93
## 1808	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	110
## 1809	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	124
## 1810	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	123
## 1811	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	129
## 1812	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	106
## 1813	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	130
## 1814	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	111
## 1815	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	115
## 1816	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	110
## 1817	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	117
## 1818	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	113
## 1819	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	114
## 1820	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	146
## 1821	1.481951e-03	0.16000905	0.67487360	108.12342	108.12402	98
## 1822	1.481951e-03	0.40891202	1.72467697	113.40685	113.40745	143
## 1823	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	116
## 1824	1.481950e-03	1.33340879	5.62394658	106.55058	106.55118	116
## 1825	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	75
## 1826	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	139
## 1827	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	120
## 1828	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	146
## 1829	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	145
## 1830	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	136
## 1831	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	120
## 1832	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	106
## 1833	1.481951e-03	1.33340875	5.62394663	113.50170	113.50229	109
## 1834	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	97
## 1835	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	30
## 1836	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	122
## 1837	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	130
## 1838	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	115
## 1839	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	116
## 1840	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	134
## 1841	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	127
## 1842	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	101
## 1843	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	145
## 1844	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	128

##	1845	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	130
##	1846	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	138
##	1847	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	133
##	1848	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	106
##	1849	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	135
##	1850	1.481951e-03	0.97783308	4.12422753	112.57405	112.57465	104
##	1851	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
##	1852	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	98
##	1853	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	123
##	1854	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	96
##	1855	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	119
##	1856	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	134
##	1857	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	83
##	1858	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	161
##	1859	1.481951e-03	0.26668174	1.12478934	115.35283	115.35343	109
##	1860	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	113
##	1861	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	98
##	1862	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	138
##	1863	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	120
##	1864	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	112
##	1865	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	104
##	1866	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	103
##	1867	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	156
##	1868	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	119
##	1869	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	134
##	1870	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	149
##	1871	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	106
##	1872	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	112
##	1873	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	139
##	1874	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	137
##	1875	1.481951e-03	0.51558472	2.17459270	109.05107	109.05167	90
##	1876	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	137
##	1877	1.481950e-03	0.55114230	2.32456459	109.14383	109.14443	140
##	1878	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	126
##	1879	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	112
##	1880	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	60
##	1881	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	109
##	1882	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	129
##	1883	1.481951e-03	0.12445148	0.52490169	114.98177	114.98237	104

## 1884	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	71
## 1885	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	86
## 1886	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	124
## 1887	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	112
## 1888	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	79
## 1889	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	95
## 1890	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	100
## 1891	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	100
## 1892	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	105
## 1893	1.481951e-03	0.44446958	1.87464888	108.86554	108.86614	107
## 1894	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	141
## 1895	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	142
## 1896	1.481950e-03	1.33340879	5.62394658	118.13577	118.13637	99
## 1897	1.481951e-03	0.65781496	2.77448036	116.37324	116.37384	112
## 1898	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
## 1899	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	147
## 1900	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	94
## 1901	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	148
## 1902	1.481951e-03	0.40891202	1.72467697	104.13870	104.13930	91
## 1903	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	131
## 1904	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	102
## 1905	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	161
## 1906	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	120
## 1907	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	105
## 1908	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	112
## 1909	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	130
## 1910	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	136
## 1911	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	110
## 1912	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
## 1913	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	124
## 1914	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	134
## 1915	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	136
## 1916	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
## 1917	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	108
## 1918	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	122
## 1919	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	137
## 1920	1.481951e-03	2.31124175	9.74817424	118.36976	118.37036	119
## 1921	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	144
## 1922	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	128

##	1923	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	104
##	1924	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	118
##	1925	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	93
##	1926	1.481951e-03	1.51119653	6.37380623	118.13619	118.13678	138
##	1927	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	135
##	1928	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	128
##	1929	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	118
##	1930	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	114
##	1931	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	120
##	1932	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	113
##	1933	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	110
##	1934	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	106
##	1935	1.481950e-03	0.33779689	1.42473313	108.58724	108.58784	125
##	1936	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	107
##	1937	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	130
##	1938	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	116
##	1939	1.481951e-03	1.51119653	6.37380623	118.59959	118.60019	102
##	1940	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	112
##	1941	1.481951e-03	2.31124183	9.74817416	113.73569	113.73629	124
##	1942	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	118
##	1943	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	125
##	1944	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	103
##	1945	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	115
##	1946	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	136
##	1947	1.481951e-03	0.69337252	2.92445227	114.14897	114.14957	120
##	1948	1.481951e-03	2.31124175	9.74817424	122.07702	122.07762	139
##	1949	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	137
##	1950	1.481950e-03	1.33340879	5.62394658	118.13577	118.13637	120
##	1951	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	113
##	1952	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	102
##	1953	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	132
##	1954	1.481951e-03	1.33340875	5.62394663	119.98940	119.99000	141
##	1955	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119
##	1956	1.481951e-03	0.97783308	4.12422753	110.25701	110.25761	103
##	1957	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	117
##	1958	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	113
##	1959	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	136
##	1960	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	128
##	1961	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	110

##	1962	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	110
##	1963	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
##	1964	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	150
##	1965	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	117
##	1966	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	142
##	1967	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	111
##	1968	1.481950e-03	0.58669987	2.47453650	113.87067	113.87127	101
##	1969	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
##	1970	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
##	1971	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
##	1972	1.481951e-03	0.48002715	2.02462079	113.59238	113.59298	94
##	1973	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	110
##	1974	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	87
##	1975	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	109
##	1976	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	112
##	1977	1.481951e-03	0.23112417	0.97481742	108.30895	108.30955	108
##	1978	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	139
##	1979	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	104
##	1980	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	121
##	1981	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	110
##	1982	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	155
##	1983	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	147
##	1984	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	117
##	1985	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	113
##	1986	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	136
##	1987	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	105
##	1988	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	129
##	1989	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	114
##	1990	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	109
##	1991	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	108
##	1992	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	142
##	1993	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	99
##	1994	1.481951e-03	0.40891202	1.72467697	108.77277	108.77337	79
##	1995	1.481951e-03	0.19556662	0.82484551	108.21619	108.21678	102
##	1996	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	74
##	1997	1.481950e-03	0.08889392	0.37492977	115.81582	115.81642	109
##	1998	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	142
##	1999	1.481951e-03	1.15562091	4.87408708	115.35491	115.35551	98
##	2000	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	128

##	2001	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	107
##	2002	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	97
##	2003	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	125
##	2004	1.481951e-03	0.40891202	1.72467697	108.77277	108.77337	75
##	2005	1.481950e-03	0.80004528	3.37436795	100.52504	100.52563	136
##	2006	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
##	2007	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	104
##	2008	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	72
##	2009	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	112
##	2010	1.481951e-03	1.15562091	4.87408708	110.72083	110.72143	120
##	2011	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	103
##	2012	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	122
##	2013	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	136
##	2014	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
##	2015	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	138
##	2016	1.481951e-03	0.19556662	0.82484551	113.77708	113.77767	50
##	2017	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	75
##	2018	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	93
##	2019	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	119
##	2020	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	117
##	2021	1.481951e-03	0.16000905	0.67487360	112.75750	112.75809	102
##	2022	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	112
##	2023	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	106
##	2024	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	108
##	2025	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	112
##	2026	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	145
##	2027	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	134
##	2028	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	117
##	2029	1.481951e-03	1.15562091	4.87408708	116.74513	116.74573	114
##	2030	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	52
##	2031	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	125
##	2032	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	127
##	2033	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	132
##	2034	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	100
##	2035	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	80
##	2036	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	124
##	2037	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	123
##	2038	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	121
##	2039	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	136

##	2040	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	152
##	2041	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	132
##	2042	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	143
##	2043	1.481950e-03	0.80004528	3.37436795	115.35408	115.35468	114
##	2044	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	88
##	2045	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	81
##	2046	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	115
##	2047	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	150
##	2048	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	141
##	2049	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	125
##	2050	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	135
##	2051	1.481951e-03	0.23112417	0.97481742	108.30895	108.30955	120
##	2052	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	83
##	2053	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	143
##	2054	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	153
##	2055	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	150
##	2056	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	152
##	2057	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	148
##	2058	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	123
##	2059	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	117
##	2060	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
##	2061	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	92
##	2062	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	115
##	2063	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	105
##	2064	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	141
##	2065	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	104
##	2066	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	156
##	2067	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	131
##	2068	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	117
##	2069	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	141
##	2070	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	138
##	2071	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	136
##	2072	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	149
##	2073	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	144
##	2074	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	123
##	2075	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	114
##	2076	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	100
##	2077	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	127
##	2078	1.481951e-03	0.62225739	2.62450845	109.32936	109.32996	92

##	2079	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	138
##	2080	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	139
##	2081	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	124
##	2082	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	132
##	2083	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	151
##	2084	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	126
##	2085	1.481951e-03	1.15562091	4.87408708	117.67195	117.67255	95
##	2086	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	115
##	2087	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	109
##	2088	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	86
##	2089	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	128
##	2090	1.481950e-03	0.80004528	3.37436795	114.42726	114.42786	94
##	2091	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	144
##	2092	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	92
##	2093	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	117
##	2094	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	130
##	2095	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	82
##	2096	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	121
##	2097	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	98
##	2098	1.481951e-03	1.15562091	4.87408708	110.72083	110.72143	137
##	2099	1.481951e-03	1.33340875	5.62394663	113.50170	113.50229	114
##	2100	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	121
##	2101	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
##	2102	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	119
##	2103	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	151
##	2104	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	144
##	2105	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	124
##	2106	1.481951e-03	1.15562091	4.87408708	116.74513	116.74573	100
##	2107	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	160
##	2108	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	109
##	2109	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	138
##	2110	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	122
##	2111	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	109
##	2112	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	139
##	2113	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	125
##	2114	1.481950e-03	0.80004528	3.37436795	112.11022	112.11082	118
##	2115	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	114
##	2116	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	152
##	2117	1.481951e-03	1.33340875	5.62394663	119.98940	119.99000	114

##	2118	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119
##	2119	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	149
##	2120	1.481951e-03	1.51119653	6.37380623	113.96552	113.96612	126
##	2121	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	114
##	2122	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	126
##	2123	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	115
##	2124	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
##	2125	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	160
##	2126	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	58
##	2127	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	108
##	2128	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	113
##	2129	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	140
##	2130	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	118
##	2131	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	111
##	2132	1.481950e-03	0.58669987	2.47453650	116.18771	116.18831	88
##	2133	1.481951e-03	2.31124175	9.74817424	118.36976	118.37036	133
##	2134	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	106
##	2135	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	137
##	2136	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	129
##	2137	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	132
##	2138	1.481951e-03	2.31124175	9.74817424	117.44295	117.44355	112
##	2139	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	122
##	2140	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	76
##	2141	1.481951e-03	2.31124175	9.74817424	118.36976	118.37036	122
##	2142	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	159
##	2143	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
##	2144	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	104
##	2145	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
##	2146	1.481951e-03	1.68898441	7.12366573	116.74638	116.74698	115
##	2147	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	159
##	2148	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	145
##	2149	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	121
##	2150	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	112
##	2151	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
##	2152	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	133
##	2153	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	136
##	2154	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	148
##	2155	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	133
##	2156	1.481950e-03	1.33340879	5.62394658	118.59918	118.59978	108

##	2157	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	91
##	2158	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	94
##	2159	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	123
##	2160	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	129
##	2161	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	108
##	2162	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	144
##	2163	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	132
##	2164	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	130
##	2165	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	105
##	2166	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	90
##	2167	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	154
##	2168	1.481951e-03	0.23112417	0.97481742	115.72347	115.72407	103
##	2169	1.481950e-03	0.80004528	3.37436795	112.11022	112.11082	87
##	2170	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	133
##	2171	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	117
##	2172	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	152
##	2173	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	119
##	2174	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	108
##	2175	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
##	2176	1.481950e-03	1.33340879	5.62394658	119.06259	119.06318	89
##	2177	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	132
##	2178	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	130
##	2179	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	124
##	2180	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	107
##	2181	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	125
##	2182	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	117
##	2183	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	117
##	2184	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	125
##	2185	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	106
##	2186	1.481951e-03	1.68898441	7.12366573	116.74638	116.74698	130
##	2187	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	129
##	2188	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	144
##	2189	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	104
##	2190	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	110
##	2191	1.481951e-03	0.37335445	1.57470506	113.31408	113.31468	113
##	2192	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	93
##	2193	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	106
##	2194	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	113
##	2195	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	120

##	2196	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	116
##	2197	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	129
##	2198	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	106
##	2199	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119
##	2200	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	112
##	2201	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	123
##	2202	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	129
##	2203	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	100
##	2204	1.481951e-03	0.16000905	0.67487360	116.46476	116.46536	97
##	2205	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	127
##	2206	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	128
##	2207	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	122
##	2208	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	93
##	2209	1.481951e-03	0.69337252	2.92445227	114.14897	114.14957	90
##	2210	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	73
##	2211	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	133
##	2212	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	112
##	2213	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	98
##	2214	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	136
##	2215	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	78
##	2216	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	107
##	2217	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	147
##	2218	1.481951e-03	1.15562091	4.87408708	110.72083	110.72143	149
##	2219	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	106
##	2220	1.481951e-03	1.68898441	7.12366573	116.74638	116.74698	97
##	2221	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	134
##	2222	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	136
##	2223	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	136
##	2224	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	131
##	2225	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	112
##	2226	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	105
##	2227	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	120
##	2228	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	120
##	2229	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	115
##	2230	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	120
##	2231	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	141
##	2232	1.481951e-03	1.68898441	7.12366573	119.06342	119.06402	119
##	2233	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	114
##	2234	1.481951e-03	1.15562091	4.87408708	115.35491	115.35551	143

##	2235	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	113
##	2236	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	118
##	2237	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	126
##	2238	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	120
##	2239	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	139
##	2240	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	104
##	2241	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	141
##	2242	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	114
##	2243	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	111
##	2244	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	94
##	2245	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	134
##	2246	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	113
##	2247	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	116
##	2248	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	114
##	2249	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	115
##	2250	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	122
##	2251	1.481951e-03	0.44446958	1.87464888	108.86554	108.86614	118
##	2252	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	115
##	2253	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	104
##	2254	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	134
##	2255	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	143
##	2256	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	143
##	2257	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	106
##	2258	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	127
##	2259	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	122
##	2260	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	115
##	2261	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	139
##	2262	1.481950e-03	0.58669987	2.47453650	113.87067	113.87127	114
##	2263	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	108
##	2264	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	127
##	2265	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	111
##	2266	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	91
##	2267	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	96
##	2268	1.481951e-03	0.44446958	1.87464888	113.49961	113.50021	103
##	2269	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	78
##	2270	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	98
##	2271	1.481950e-03	0.80004528	3.37436795	105.15911	105.15971	94
##	2272	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	135
##	2273	1.481951e-03	0.40891202	1.72467697	108.77277	108.77337	124

##	2274	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	108
##	2275	1.481951e-03	0.69337252	2.92445227	114.14897	114.14957	128
##	2276	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	139
##	2277	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	128
##	2278	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	102
##	2279	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	136
##	2280	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	146
##	2281	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	136
##	2282	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	89
##	2283	1.481950e-03	0.08889392	0.37492977	103.30382	103.30441	102
##	2284	1.481951e-03	0.12445148	0.52490169	103.39658	103.39718	138
##	2285	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	128
##	2286	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	124
##	2287	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	122
##	2288	1.481951e-03	0.16000905	0.67487360	115.53794	115.53854	101
##	2289	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	118
##	2290	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	70
##	2291	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	136
##	2292	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	152
##	2293	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	98
##	2294	1.481950e-03	0.33779689	1.42473313	113.22132	113.22192	68
##	2295	1.481951e-03	0.48002715	2.02462079	116.83623	116.83683	101
##	2296	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	94
##	2297	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	117
##	2298	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	96
##	2299	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	122
##	2300	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	132
##	2301	1.481951e-03	0.12445148	0.52490169	108.03066	108.03125	104
##	2302	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	130
##	2303	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	84
##	2304	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	159
##	2305	1.481951e-03	0.26668174	1.12478934	116.27964	116.28024	115
##	2306	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	126
##	2307	1.481950e-03	0.80004528	3.37436795	115.81748	115.81808	132
##	2308	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	101
##	2309	1.481951e-03	0.97783308	4.12422753	110.25701	110.25761	87
##	2310	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	147
##	2311	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	108
##	2312	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	103

##	2313	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	128
##	2314	1.481951e-03	0.23112417	0.97481742	116.65029	116.65088	97
##	2315	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	113
##	2316	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	128
##	2317	1.481951e-03	0.51558472	2.17459270	113.68514	113.68574	74
##	2318	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	95
##	2319	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
##	2320	1.481951e-03	0.44446958	1.87464888	108.86554	108.86614	129
##	2321	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	117
##	2322	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	109
##	2323	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	109
##	2324	1.481951e-03	0.40891202	1.72467697	115.72389	115.72449	129
##	2325	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	144
##	2326	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	131
##	2327	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	104
##	2328	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	120
##	2329	1.481950e-03	0.80004528	3.37436795	114.42726	114.42786	99
##	2330	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	103
##	2331	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	123
##	2332	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	134
##	2333	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	147
##	2334	1.481951e-03	0.97783308	4.12422753	110.25701	110.25761	83
##	2335	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	91
##	2336	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	124
##	2337	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	141
##	2338	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	56
##	2339	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	139
##	2340	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	133
##	2341	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	144
##	2342	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	130
##	2343	1.481950e-03	1.33340879	5.62394658	118.13577	118.13637	102
##	2344	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	109
##	2345	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	104
##	2346	1.481951e-03	0.62225739	2.62450845	115.35366	115.35426	134
##	2347	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	91
##	2348	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	159
##	2349	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	93
##	2350	1.481950e-03	0.80004528	3.37436795	112.11022	112.11082	131
##	2351	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119

##	2352	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	126
##	2353	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	107
##	2354	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	76
##	2355	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	122
##	2356	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	104
##	2357	1.481951e-03	0.12445148	0.52490169	115.44518	115.44578	92
##	2358	1.481951e-03	0.30223931	1.27476125	113.12856	113.12915	101
##	2359	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	109
##	2360	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	113
##	2361	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	136
##	2362	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	147
##	2363	1.481951e-03	0.62225739	2.62450845	111.64640	111.64700	104
##	2364	1.481951e-03	0.65781496	2.77448036	111.73917	111.73976	117
##	2365	1.481951e-03	0.19556662	0.82484551	98.94803	98.94863	89
##	2366	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	101
##	2367	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	121
##	2368	1.481951e-03	0.69337252	2.92445227	114.14897	114.14957	120
##	2369	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
##	2370	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	112
##	2371	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	125
##	2372	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	128
##	2373	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
##	2374	1.481951e-03	0.37335445	1.57470506	108.68001	108.68061	104
##	2375	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	123
##	2376	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	123
##	2377	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	164
##	2378	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	113
##	2379	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	102
##	2380	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	113
##	2381	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	99
##	2382	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	127
##	2383	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	132
##	2384	1.481951e-03	0.69337252	2.92445227	109.51489	109.51549	121
##	2385	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	91
##	2386	1.481951e-03	0.01777878	0.07498596	112.38644	112.38704	109
##	2387	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	112
##	2388	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
##	2389	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	149
##	2390	1.481951e-03	0.62225739	2.62450845	113.96344	113.96404	103

##	2391	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	120
##	2392	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	144
##	2393	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	116
##	2394	1.481950e-03	0.08889392	0.37492977	112.57197	112.57257	112
##	2395	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	128
##	2396	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	137
##	2397	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	127
##	2398	1.481951e-03	0.69337252	2.92445227	111.83193	111.83253	101
##	2399	1.481951e-03	1.15562091	4.87408708	113.03787	113.03847	92
##	2400	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	101
##	2401	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	121
##	2402	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	116
##	2403	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	127
##	2404	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	133
##	2405	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	128
##	2406	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	123
##	2407	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	122
##	2408	1.481950e-03	0.55114230	2.32456459	109.14383	109.14443	113
##	2409	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	128
##	2410	1.481951e-03	0.69337252	2.92445227	116.46601	116.46660	139
##	2411	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	141
##	2412	1.481951e-03	0.51558472	2.17459270	115.53877	115.53937	121
##	2413	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	123
##	2414	1.481951e-03	0.19556662	0.82484551	108.21619	108.21678	151
##	2415	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	119
##	2416	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	105
##	2417	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	133
##	2418	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	123
##	2419	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	111
##	2420	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	123
##	2421	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	123
##	2422	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	130
##	2423	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	154
##	2424	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
##	2425	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	90
##	2426	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	114
##	2427	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	123
##	2428	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	123
##	2429	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	136

##	2430	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	104
##	2431	1.481951e-03	0.62225739	2.62450845	109.32936	109.32996	128
##	2432	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	128
##	2433	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	160
##	2434	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	111
##	2435	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	141
##	2436	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	122
##	2437	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	98
##	2438	1.481950e-03	0.08889392	0.37492977	112.57197	112.57257	96
##	2439	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	127
##	2440	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	119
##	2441	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	43
##	2442	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	100
##	2443	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	139
##	2444	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	128
##	2445	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	115
##	2446	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	121
##	2447	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	134
##	2448	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	120
##	2449	1.481951e-03	0.23112417	0.97481742	108.30895	108.30955	104
##	2450	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	170
##	2451	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	132
##	2452	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	126
##	2453	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	142
##	2454	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	103
##	2455	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	112
##	2456	1.481951e-03	1.51119653	6.37380623	111.64848	111.64908	117
##	2457	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	131
##	2458	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	115
##	2459	1.481951e-03	0.69337252	2.92445227	114.14897	114.14957	118
##	2460	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	106
##	2461	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	126
##	2462	1.481951e-03	0.51558472	2.17459270	109.05107	109.05167	104
##	2463	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	143
##	2464	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	156
##	2465	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	137
##	2466	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	126
##	2467	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	134
##	2468	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	89

##	2469	1.481951e-03	0.97783308	4.12422753	110.25701	110.25761	64
##	2470	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
##	2471	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	121
##	2472	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	109
##	2473	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	38
##	2474	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	128
##	2475	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	132
##	2476	1.481951e-03	0.65781496	2.77448036	114.05620	114.05680	143
##	2477	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	100
##	2478	1.481951e-03	1.51119653	6.37380623	118.13619	118.13678	107
##	2479	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	103
##	2480	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	157
##	2481	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	126
##	2482	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	125
##	2483	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	102
##	2484	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	98
##	2485	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	96
##	2486	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	134
##	2487	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	94
##	2488	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	84
##	2489	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	155
##	2490	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	117
##	2491	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	169
##	2492	1.481951e-03	0.12445148	0.52490169	116.37199	116.37259	105
##	2493	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	118
##	2494	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	113
##	2495	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	114
##	2496	1.481950e-03	0.33779689	1.42473313	108.58724	108.58784	116
##	2497	1.481951e-03	0.16000905	0.67487360	112.75750	112.75809	79
##	2498	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	109
##	2499	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	146
##	2500	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	116
##	2501	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	93
##	2502	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	108
##	2503	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	115
##	2504	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	115
##	2505	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	119
##	2506	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	128
##	2507	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	119

##	2508	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	102
##	2509	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	130
##	2510	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	140
##	2511	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	107
##	2512	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	134
##	2513	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	126
##	2514	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	143
##	2515	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	122
##	2516	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	112
##	2517	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	151
##	2518	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	127
##	2519	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	158
##	2520	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	90
##	2521	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	114
##	2522	1.481951e-03	0.62225739	2.62450845	116.74388	116.74448	143
##	2523	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	109
##	2524	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	126
##	2525	1.481951e-03	1.51119653	6.37380623	118.13619	118.13678	153
##	2526	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	123
##	2527	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	72
##	2528	1.481950e-03	0.80004528	3.37436795	114.42726	114.42786	121
##	2529	1.481950e-03	0.80004528	3.37436795	117.67111	117.67171	137
##	2530	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	64
##	2531	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	119
##	2532	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	137
##	2533	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	98
##	2534	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	126
##	2535	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	142
##	2536	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	122
##	2537	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	112
##	2538	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	142
##	2539	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	108
##	2540	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	128
##	2541	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	124
##	2542	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	104
##	2543	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	118
##	2544	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	96
##	2545	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	106
##	2546	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	114

##	2547	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	142
##	2548	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	74
##	2549	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	146
##	2550	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	128
##	2551	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	115
##	2552	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	139
##	2553	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	143
##	2554	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	125
##	2555	1.481951e-03	0.51558472	2.17459270	116.00218	116.00278	120
##	2556	1.481951e-03	1.15562091	4.87408708	117.67195	117.67255	120
##	2557	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	135
##	2558	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	91
##	2559	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	117
##	2560	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	119
##	2561	1.481951e-03	2.31124183	9.74817416	113.73569	113.73629	128
##	2562	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	135
##	2563	1.481950e-03	0.80004528	3.37436795	116.28089	116.28149	91
##	2564	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	108
##	2565	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	110
##	2566	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	136
##	2567	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	126
##	2568	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	115
##	2569	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	136
##	2570	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
##	2571	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	117
##	2572	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	152
##	2573	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	124
##	2574	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	115
##	2575	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	134
##	2576	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	146
##	2577	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	125
##	2578	1.481950e-03	0.33779689	1.42473313	108.58724	108.58784	89
##	2579	1.481951e-03	0.69337252	2.92445227	111.83193	111.83253	128
##	2580	1.481951e-03	0.40891202	1.72467697	118.04092	118.04152	133
##	2581	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	112
##	2582	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	143
##	2583	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	157
##	2584	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	99
##	2585	1.481951e-03	0.16000905	0.67487360	113.68431	113.68491	96

##	2586	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	128
##	2587	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	122
##	2588	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	119
##	2589	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	160
##	2590	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	108
##	2591	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	114
##	2592	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	115
##	2593	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	131
##	2594	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	118
##	2595	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	149
##	2596	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	114
##	2597	1.481951e-03	0.16000905	0.67487360	115.07453	115.07513	133
##	2598	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	112
##	2599	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	101
##	2600	1.481951e-03	0.05333635	0.22495787	112.47920	112.47980	86
##	2601	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	125
##	2602	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	135
##	2603	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	105
##	2604	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	107
##	2605	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	97
##	2606	1.481951e-03	0.01777878	0.07498596	117.02051	117.02111	158
##	2607	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	123
##	2608	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	110
##	2609	1.481951e-03	0.48002715	2.02462079	118.22645	118.22705	74
##	2610	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	93
##	2611	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	159
##	2612	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	114
##	2613	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	142
##	2614	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	139
##	2615	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	132
##	2616	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	151
##	2617	1.481950e-03	0.30223932	1.27476123	110.81152	110.81212	111
##	2618	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	115
##	2619	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	120
##	2620	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	155
##	2621	1.481951e-03	2.31124175	9.74817424	117.44295	117.44355	131
##	2622	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	124
##	2623	1.481950e-03	0.80004528	3.37436795	114.42726	114.42786	127
##	2624	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	125

##	2625	1.481950e-03	0.08889392	0.37492977	117.20604	117.20664	106
##	2626	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	144
##	2627	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	109
##	2628	1.481951e-03	0.01777878	0.07498596	95.70377	95.70436	121
##	2629	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	111
##	2630	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	145
##	2631	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	131
##	2632	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	129
##	2633	1.481951e-03	0.37335445	1.57470506	108.68001	108.68061	92
##	2634	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	111
##	2635	1.481950e-03	0.33779689	1.42473313	117.85540	117.85599	91
##	2636	1.481950e-03	0.80004528	3.37436795	116.74430	116.74490	124
##	2637	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	130
##	2638	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	137
##	2639	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	128
##	2640	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	133
##	2641	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	68
##	2642	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	97
##	2643	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	124
##	2644	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	129
##	2645	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	117
##	2646	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	93
##	2647	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	103
##	2648	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	134
##	2649	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	101
##	2650	1.481951e-03	0.26668174	1.12478934	117.66987	117.67046	137
##	2651	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	153
##	2652	1.481950e-03	0.80004528	3.37436795	100.52504	100.52563	96
##	2653	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	103
##	2654	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	112
##	2655	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	108
##	2656	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	97
##	2657	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	99
##	2658	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	130
##	2659	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	148
##	2660	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	119
##	2661	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	89
##	2662	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	128
##	2663	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	130

##	2664	1.481951e-03	0.23112417	0.97481742	108.30895	108.30955	120
##	2665	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	146
##	2666	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	102
##	2667	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	132
##	2668	1.481951e-03	1.51119653	6.37380623	115.35574	115.35634	90
##	2669	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	112
##	2670	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	119
##	2671	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	145
##	2672	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	125
##	2673	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	127
##	2674	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	134
##	2675	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	139
##	2676	1.481951e-03	0.97783308	4.12422753	114.89109	114.89168	106
##	2677	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	69
##	2678	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	114
##	2679	1.481951e-03	0.16000905	0.67487360	108.12342	108.12402	111
##	2680	1.481951e-03	0.44446958	1.87464888	115.81665	115.81725	123
##	2681	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	172
##	2682	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	128
##	2683	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	138
##	2684	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	77
##	2685	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	137
##	2686	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	93
##	2687	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	160
##	2688	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	104
##	2689	1.481951e-03	0.12445148	0.52490169	117.29881	117.29941	115
##	2690	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	176
##	2691	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	87
##	2692	1.481951e-03	0.97783308	4.12422753	96.35478	96.35538	90
##	2693	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	116
##	2694	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	134
##	2695	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	86
##	2696	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	110
##	2697	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	97
##	2698	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	109
##	2699	1.481951e-03	0.69337252	2.92445227	118.78304	118.78364	108
##	2700	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	126
##	2701	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	100
##	2702	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	137

##	2703	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	115
##	2704	1.481950e-03	0.80004528	3.37436795	109.79319	109.79378	128
##	2705	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	131
##	2706	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	130
##	2707	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	129
##	2708	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	114
##	2709	1.481951e-03	0.51558472	2.17459270	118.31922	118.31982	111
##	2710	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	192
##	2711	1.481951e-03	2.31124175	9.74817424	120.68680	120.68740	87
##	2712	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	98
##	2713	1.481950e-03	0.80004528	3.37436795	112.11022	112.11082	115
##	2714	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	151
##	2715	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	96
##	2716	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	54
##	2717	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	110
##	2718	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	125
##	2719	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	108
##	2720	1.481950e-03	0.80004528	3.37436795	114.42726	114.42786	112
##	2721	1.481951e-03	0.16000905	0.67487360	113.22090	113.22150	128
##	2722	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	131
##	2723	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	87
##	2724	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	125
##	2725	1.481951e-03	0.19556662	0.82484551	110.53322	110.53382	104
##	2726	1.481950e-03	0.58669987	2.47453650	118.50475	118.50535	149
##	2727	1.481951e-03	0.62225739	2.62450845	118.59751	118.59811	166
##	2728	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	113
##	2729	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	139
##	2730	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	102
##	2731	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	139
##	2732	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	119
##	2733	1.481951e-03	0.23112417	0.97481742	112.94303	112.94362	91
##	2734	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	153
##	2735	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	87
##	2736	1.481950e-03	0.33779689	1.42473313	110.90428	110.90488	80
##	2737	1.481951e-03	1.15562091	4.87408708	110.72083	110.72143	124
##	2738	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	149
##	2739	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	135
##	2740	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	132
##	2741	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	142

##	2742	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	130
##	2743	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	123
##	2744	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	126
##	2745	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	116
##	2746	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	116
##	2747	1.481951e-03	0.23112417	0.97481742	117.57710	117.57770	99
##	2748	1.481951e-03	0.44446958	1.87464888	116.74347	116.74407	119
##	2749	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	122
##	2750	1.481951e-03	0.19556662	0.82484551	112.85026	112.85086	115
##	2751	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	111
##	2752	1.481951e-03	0.37335445	1.57470506	117.94816	117.94876	108
##	2753	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	140
##	2754	1.481951e-03	1.15562091	4.87408708	119.98898	119.98958	119
##	2755	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	134
##	2756	1.481951e-03	0.44446958	1.87464888	111.18258	111.18317	130
##	2757	1.481951e-03	0.30223932	1.27476124	117.76263	117.76323	107
##	2758	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	147
##	2759	1.481951e-03	0.16000905	0.67487360	117.39157	117.39217	109
##	2760	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	114
##	2761	1.481951e-03	0.65781496	2.77448036	118.69028	118.69088	118
##	2762	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	110
##	2763	1.481951e-03	1.51119653	6.37380623	120.91663	120.91723	127
##	2764	1.481951e-03	0.62225739	2.62450845	109.32936	109.32996	102
##	2765	1.481951e-03	1.68898441	7.12366573	121.38046	121.38105	158
##	2766	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	113
##	2767	1.481950e-03	0.55114230	2.32456459	118.41198	118.41258	121
##	2768	1.481951e-03	0.05333635	0.22495787	117.11328	117.11388	130
##	2769	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	85
##	2770	1.481951e-03	0.44446958	1.87464888	118.13369	118.13429	87
##	2771	1.481950e-03	0.80004528	3.37436795	119.06134	119.06194	135
##	2772	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	110
##	2773	1.481951e-03	0.19556662	0.82484551	117.48434	117.48493	146
##	2774	1.481951e-03	2.31124183	9.74817416	123.00384	123.00444	135
##	2775	1.481951e-03	0.97783308	4.12422753	119.52516	119.52576	118
##	2776	1.481951e-03	1.33340875	5.62394663	120.45281	120.45341	111
##	cigs faminc eps						
##	1	0	13.5	0.00500			
##	2	0	7.5	0.00500			
##	3	0	0.5	0.00500			

## 4	0	15.5	0.00500
## 5	0	27.5	0.00500
## 6	0	7.5	0.00500
## 7	0	65.0	0.00500
## 8	0	27.5	0.00500
## 9	0	27.5	0.00500
## 10	0	37.5	0.00500
## 11	0	27.5	0.00500
## 12	0	27.5	0.00500
## 13	0	6.5	0.00500
## 14	0	10.5	0.00500
## 15	0	12.5	0.00500
## 16	0	17.5	0.00500
## 17	0	42.5	0.00500
## 18	0	4.5	0.00500
## 19	0	32.5	0.00500
## 20	0	6.5	0.00500
## 21	0	47.5	0.00500
## 22	0	22.5	0.00500
## 23	6	15.5	0.00500
## 24	0	13.5	0.00500
## 25	0	37.5	0.00500
## 26	0	2.5	0.00500
## 27	0	2.5	0.00500
## 28	0	32.5	0.00500
## 29	0	22.5	0.00500
## 30	0	0.5	0.00500
## 31	0	65.0	0.00500
## 32	0	65.0	0.00500
## 33	0	65.0	0.00500
## 34	0	27.5	0.00500
## 35	0	7.5	0.00500
## 36	0	47.5	0.00500
## 37	0	65.0	0.00500
## 38	0	65.0	0.00500
## 39	0	32.5	0.00500
## 40	0	13.5	0.00500
## 41	0	65.0	0.00500
## 42	0	47.5	0.00500

## 43	0	37.5	0.00500
## 44	0	32.5	0.00500
## 45	0	18.5	0.00500
## 46	0	65.0	0.00500
## 47	0	65.0	0.00500
## 48	0	11.5	0.00500
## 49	0	32.5	0.00500
## 50	0	65.0	0.00500
## 51	0	17.5	0.00500
## 52	0	16.5	0.00500
## 53	0	22.5	0.00500
## 54	0	42.5	0.00500
## 55	0	32.5	0.00500
## 56	0	11.5	0.00500
## 57	0	65.0	0.00500
## 58	0	27.5	0.00500
## 59	0	27.5	0.00500
## 60	0	17.5	0.00500
## 61	0	65.0	0.00500
## 62	0	3.5	0.00500
## 63	0	0.5	0.00500
## 64	10	0.5	0.00500
## 65	0	3.5	0.00500
## 66	0	65.0	0.00500
## 67	0	22.5	0.00500
## 68	0	22.5	0.00500
## 69	20	7.5	0.00500
## 70	0	27.5	0.00500
## 71	0	18.5	0.00500
## 72	0	37.5	0.00500
## 73	0	22.5	0.00500
## 74	0	27.5	0.00500
## 75	40	18.5	0.00500
## 76	0	22.5	0.00500
## 77	0	0.5	0.00500
## 78	0	32.5	0.00500
## 79	0	27.5	0.00500
## 80	0	32.5	0.00500
## 81	0	15.5	0.00500

## 82	0	16.5	0.00500
## 83	0	19.5	0.00500
## 84	0	15.5	0.00500
## 85	0	14.5	0.00500
## 86	0	32.5	0.00500
## 87	0	14.5	0.00500
## 88	0	8.5	0.00500
## 89	0	8.5	0.00500
## 90	0	7.5	0.00500
## 91	0	32.5	0.00500
## 92	0	65.0	0.00500
## 93	10	7.5	0.00500
## 94	0	27.5	0.00500
## 95	10	13.5	0.00500
## 96	0	27.5	0.00500
## 97	0	18.5	0.00500
## 98	20	22.5	0.00500
## 99	0	65.0	0.00500
## 100	0	22.5	0.00500
## 101	0	42.5	0.00500
## 102	0	37.5	0.00500
## 103	3	11.5	0.00500
## 104	0	65.0	0.00500
## 105	0	7.5	0.00500
## 106	0	22.5	0.00500
## 107	0	65.0	0.00500
## 108	10	27.5	0.00500
## 109	0	7.5	0.00500
## 110	0	65.0	0.00500
## 111	0	8.5	0.00500
## 112	0	12.5	0.00500
## 113	0	37.5	0.00500
## 114	0	14.5	0.00500
## 115	0	65.0	0.00500
## 116	20	37.5	0.00500
## 117	0	27.5	0.00500
## 118	0	65.0	0.00500
## 119	0	32.5	0.00500
## 120	0	6.5	0.00500

## 121	0	65.0	0.00500
## 122	40	6.5	0.00500
## 123	0	65.0	0.00500
## 124	0	65.0	0.00500
## 125	0	7.5	0.00500
## 126	0	17.5	0.00500
## 127	0	27.5	0.00500
## 128	0	37.5	0.00500
## 129	0	22.5	0.00500
## 130	0	22.5	0.00500
## 131	0	65.0	0.00500
## 132	0	42.5	0.00500
## 133	0	2.5	0.00500
## 134	0	10.5	0.00500
## 135	0	42.5	0.00500
## 136	0	14.5	0.00500
## 137	0	42.5	0.00500
## 138	0	32.5	0.00500
## 139	0	3.5	0.00500
## 140	0	42.5	0.00500
## 141	0	15.5	0.00500
## 142	0	32.5	0.00500
## 143	0	19.5	0.00500
## 144	0	42.5	0.00500
## 145	0	65.0	0.00500
## 146	0	13.5	0.00500
## 147	0	27.5	0.00500
## 148	0	42.5	0.00500
## 149	0	5.5	0.00500
## 150	0	5.5	0.00500
## 151	0	65.0	0.00500
## 152	0	22.5	0.00500
## 153	0	18.5	0.00500
## 154	0	27.5	0.00500
## 155	0	65.0	0.00500
## 156	4	32.5	0.00500
## 157	0	22.5	0.00500
## 158	0	37.5	0.00500
## 159	0	65.0	0.00500

## 160	0	1.5	0.00500
## 161	0	27.5	0.00500
## 162	0	47.5	0.00500
## 163	0	32.5	0.00500
## 164	0	65.0	0.00500
## 165	0	8.5	0.00500
## 166	0	65.0	0.00500
## 167	0	27.5	0.00500
## 168	0	37.5	0.00500
## 169	0	37.5	0.00500
## 170	0	22.5	0.00500
## 171	0	37.5	0.00500
## 172	5	8.5	0.00500
## 173	0	42.5	0.00500
## 174	0	65.0	0.00500
## 175	0	12.5	0.00500
## 176	0	27.5	0.00500
## 177	0	27.5	0.00500
## 178	0	65.0	0.00500
## 179	0	22.5	0.00500
## 180	0	18.5	0.00500
## 181	0	13.5	0.00500
## 182	0	18.5	0.00500
## 183	0	27.5	0.00500
## 184	0	22.5	0.00500
## 185	0	65.0	0.00500
## 186	10	32.5	0.00500
## 187	0	22.5	0.00500
## 188	0	37.5	0.00500
## 189	20	47.5	0.00500
## 190	0	65.0	0.00500
## 191	0	32.5	0.00500
## 192	0	10.5	0.00500
## 193	0	22.5	0.00500
## 194	0	37.5	0.00500
## 195	0	65.0	0.00500
## 196	0	65.0	0.00500
## 197	0	10.5	0.00500
## 198	0	32.5	0.00500

## 199	0	32.5	0.00500
## 200	0	65.0	0.00500
## 201	0	47.5	0.00500
## 202	8	32.5	0.00500
## 203	0	6.5	0.00500
## 204	0	12.5	0.00500
## 205	0	47.5	0.00500
## 206	0	19.5	0.00500
## 207	0	7.5	0.00500
## 208	0	8.5	0.00500
## 209	0	19.5	0.00500
## 210	0	65.0	0.00500
## 211	0	32.5	0.00500
## 212	0	65.0	0.00500
## 213	0	19.5	0.00500
## 214	0	17.5	0.00500
## 215	0	27.5	0.00500
## 216	0	12.5	0.00500
## 217	4	27.5	0.00500
## 218	0	32.5	0.00500
## 219	0	22.5	0.00500
## 220	0	18.5	0.00500
## 221	20	32.5	0.00500
## 222	0	42.5	0.00500
## 223	0	37.5	0.00500
## 224	0	32.5	0.00500
## 225	0	9.5	0.00500
## 226	10	15.5	0.00500
## 227	0	65.0	0.00500
## 228	0	65.0	0.00500
## 229	12	22.5	0.00500
## 230	0	32.5	0.00500
## 231	0	65.0	0.00500
## 232	0	65.0	0.00500
## 233	0	5.5	0.00500
## 234	0	22.5	0.00500
## 235	0	13.5	0.00500
## 236	0	65.0	0.00500
## 237	0	65.0	0.00500

## 238	0	27.5	0.00500
## 239	0	27.5	0.00500
## 240	0	27.5	0.00500
## 241	0	10.5	0.00500
## 242	0	9.5	0.00500
## 243	0	0.5	0.00500
## 244	0	32.5	0.00500
## 245	0	19.5	0.00500
## 246	0	42.5	0.00500
## 247	0	65.0	0.00500
## 248	0	65.0	0.00500
## 249	0	42.5	0.00500
## 250	0	37.5	0.00500
## 251	0	6.5	0.00500
## 252	0	65.0	0.00500
## 253	0	1.5	0.00500
## 254	0	65.0	0.00500
## 255	0	32.5	0.00500
## 256	0	65.0	0.00500
## 257	20	17.5	0.00500
## 258	0	18.5	0.00500
## 259	0	13.5	0.00500
## 260	0	10.5	0.00500
## 261	0	18.5	0.00500
## 262	10	13.5	0.00500
## 263	10	32.5	0.00500
## 264	0	15.5	0.00500
## 265	0	10.5	0.00500
## 266	0	32.5	0.00500
## 267	0	13.5	0.00500
## 268	0	16.5	0.00500
## 269	20	6.5	0.00500
## 270	0	8.5	0.00500
## 271	0	22.5	0.00500
## 272	0	27.5	0.00500
## 273	20	12.5	0.00500
## 274	0	19.5	0.00500
## 275	0	65.0	0.00500
## 276	0	65.0	0.00500

## 277	0	15.5	0.00500
## 278	0	37.5	0.00500
## 279	0	47.5	0.00500
## 280	0	47.5	0.00500
## 281	0	37.5	0.00500
## 282	4	32.5	0.00500
## 283	0	65.0	0.00500
## 284	0	27.5	0.00500
## 285	0	65.0	0.00500
## 286	0	65.0	0.00500
## 287	0	32.5	0.00500
## 288	0	22.5	0.00500
## 289	0	17.5	0.00500
## 290	1	32.5	0.00500
## 291	0	65.0	0.00500
## 292	0	37.5	0.00500
## 293	0	37.5	0.00500
## 294	0	14.5	0.00500
## 295	20	18.5	0.00500
## 296	0	65.0	0.00500
## 297	0	47.5	0.00500
## 298	0	27.5	0.00500
## 299	40	27.5	0.00500
## 300	0	27.5	0.00500
## 301	0	22.5	0.00500
## 302	0	32.5	0.00500
## 303	20	3.5	0.00500
## 304	10	18.5	0.00500
## 305	0	19.5	0.00500
## 306	0	32.5	0.00500
## 307	0	22.5	0.00500
## 308	0	65.0	0.00500
## 309	0	65.0	0.00500
## 310	0	14.5	0.00500
## 311	0	65.0	0.00500
## 312	10	14.5	0.00500
## 313	0	37.5	0.00500
## 314	0	13.5	0.00500
## 315	20	4.5	0.00500

## 316	0	22.5	0.00500
## 317	0	37.5	0.00500
## 318	0	65.0	0.00500
## 319	0	11.5	0.00500
## 320	0	22.5	0.00500
## 321	0	65.0	0.00500
## 322	0	37.5	0.00500
## 323	0	10.5	0.00500
## 324	0	37.5	0.00500
## 325	0	22.5	0.00500
## 326	0	15.5	0.00500
## 327	0	65.0	0.00500
## 328	15	0.5	0.00500
## 329	0	32.5	0.00500
## 330	0	10.5	0.00500
## 331	0	22.5	0.00500
## 332	0	47.5	0.00500
## 333	0	27.5	0.00500
## 334	0	65.0	0.00500
## 335	0	47.5	0.00500
## 336	0	4.5	0.00500
## 337	0	8.5	0.00500
## 338	0	47.5	0.00500
## 339	20	12.5	0.00500
## 340	0	65.0	0.00500
## 341	0	9.5	0.00500
## 342	20	37.5	0.00500
## 343	12	27.5	0.00500
## 344	0	65.0	0.00500
## 345	8	7.5	0.00500
## 346	0	65.0	0.00500
## 347	0	47.5	0.00500
## 348	0	65.0	0.00500
## 349	0	42.5	0.00500
## 350	0	27.5	0.00500
## 351	15	37.5	0.00500
## 352	0	47.5	0.00500
## 353	10	2.5	0.00500
## 354	0	7.5	0.00500

## 355	0	6.5	0.00500
## 356	0	37.5	0.00500
## 357	10	32.5	0.00500
## 358	0	47.5	0.00500
## 359	0	42.5	0.00500
## 360	20	9.5	0.00500
## 361	0	47.5	0.00500
## 362	0	65.0	0.00500
## 363	0	22.5	0.00500
## 364	0	42.5	0.00500
## 365	0	37.5	0.00500
## 366	0	19.5	0.00500
## 367	0	42.5	0.00500
## 368	0	14.5	0.00500
## 369	0	37.5	0.00500
## 370	0	7.5	0.00500
## 371	0	37.5	0.00500
## 372	0	32.5	0.00500
## 373	0	9.5	0.00500
## 374	0	65.0	0.00500
## 375	0	32.5	0.00500
## 376	10	5.5	0.00500
## 377	0	42.5	0.00500
## 378	0	22.5	0.00500
## 379	0	42.5	0.00500
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## 382	0	27.5	0.00500
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## 384	0	32.5	0.00500
## 385	0	32.5	0.00500
## 386	0	5.5	0.00500
## 387	0	47.5	0.00500
## 388	0	47.5	0.00500
## 389	0	42.5	0.00500
## 390	0	37.5	0.00500
## 391	0	32.5	0.00500
## 392	0	65.0	0.00500
## 393	0	47.5	0.00500

## 394	0	42.5	0.00500
## 395	0	27.5	0.00500
## 396	0	17.5	0.00500
## 397	0	18.5	0.00500
## 398	0	42.5	0.00500
## 399	0	37.5	0.00500
## 400	0	42.5	0.00500
## 401	0	32.5	0.00500
## 402	0	2.5	0.00500
## 403	0	18.5	0.00500
## 404	0	4.5	0.00500
## 405	0	22.5	0.00500
## 406	20	4.5	0.00500
## 407	0	27.5	0.00500
## 408	0	19.5	0.00500
## 409	0	27.5	0.00500
## 410	0	19.5	0.00500
## 411	0	18.5	0.00500
## 412	0	22.5	0.00500
## 413	0	22.5	0.00500
## 414	20	1.5	0.00500
## 415	0	4.5	0.00500
## 416	4	3.5	0.00500
## 417	0	3.5	0.00500
## 418	0	42.5	0.00500
## 419	0	37.5	0.00500
## 420	0	22.5	0.00500
## 421	0	37.5	0.00500
## 422	0	15.5	0.00500
## 423	0	27.5	0.00500
## 424	0	32.5	0.00500
## 425	0	22.5	0.00500
## 426	0	27.5	0.00500
## 427	0	27.5	0.00500
## 428	0	4.5	0.00500
## 429	0	27.5	0.00500
## 430	0	22.5	0.00500
## 431	0	27.5	0.00500
## 432	0	19.5	0.00500

## 433	20	4.5	0.00500
## 434	10	11.5	0.00500
## 435	0	27.5	0.00500
## 436	30	37.5	0.00500
## 437	0	6.5	0.00500
## 438	0	32.5	0.00500
## 439	0	18.5	0.00500
## 440	0	32.5	0.00500
## 441	0	42.5	0.00500
## 442	0	22.5	0.00500
## 443	0	16.5	0.00500
## 444	0	42.5	0.00500
## 445	15	37.5	0.00500
## 446	0	13.5	0.00500
## 447	0	22.5	0.00500
## 448	0	22.5	0.00500
## 449	0	37.5	0.00500
## 450	0	27.5	0.00500
## 451	0	16.5	0.00500
## 452	0	47.5	0.00500
## 453	0	22.5	0.00500
## 454	0	22.5	0.00500
## 455	0	47.5	0.00500
## 456	0	22.5	0.00500
## 457	0	14.5	0.00500
## 458	0	16.5	0.00500
## 459	0	14.5	0.00500
## 460	0	18.5	0.00500
## 461	0	3.5	0.00500
## 462	15	27.5	0.00500
## 463	0	22.5	0.00500
## 464	0	17.5	0.00500
## 465	0	18.5	0.00500
## 466	0	0.5	0.00500
## 467	0	17.5	0.00500
## 468	0	18.5	0.00500
## 469	0	0.5	0.00500
## 470	0	37.5	0.00500
## 471	5	7.5	0.00500

## 472	0	18.5	0.00500
## 473	0	4.5	0.00500
## 474	0	27.5	0.00500
## 475	0	6.5	0.00500
## 476	0	27.5	0.00500
## 477	0	11.5	0.00500
## 478	0	42.5	0.00500
## 479	0	22.5	0.00500
## 480	0	19.5	0.00500
## 481	0	65.0	0.00500
## 482	0	37.5	0.00500
## 483	0	42.5	0.00500
## 484	0	42.5	0.00500
## 485	0	37.5	0.00500
## 486	0	47.5	0.00500
## 487	20	14.5	0.00500
## 488	0	32.5	0.00500
## 489	20	15.5	0.00500
## 490	0	32.5	0.00500
## 491	0	18.5	0.00500
## 492	0	2.5	0.00500
## 493	0	5.5	0.00500
## 494	0	47.5	0.00500
## 495	5	3.5	0.00500
## 496	0	42.5	0.00500
## 497	0	6.5	0.00500
## 498	0	32.5	0.00500
## 499	0	47.5	0.00500
## 500	0	3.5	0.00500
## 501	0	27.5	0.00500
## 502	0	22.5	0.00500
## 503	0	27.5	0.00500
## 504	0	18.5	0.00500
## 505	20	12.5	0.00500
## 506	0	0.5	0.00500
## 507	0	1.5	0.00500
## 508	5	37.5	0.00500
## 509	5	18.5	0.00500
## 510	0	22.5	0.00500

## 511	0	47.5	0.00500
## 512	0	65.0	0.00500
## 513	0	65.0	0.00500
## 514	30	11.5	0.00500
## 515	0	32.5	0.00500
## 516	0	22.5	0.00500
## 517	0	32.5	0.00500
## 518	0	65.0	0.00500
## 519	0	27.5	0.00500
## 520	0	18.5	0.00500
## 521	0	37.5	0.00500
## 522	0	32.5	0.00500
## 523	0	19.5	0.00500
## 524	0	22.5	0.00500
## 525	0	27.5	0.00500
## 526	0	22.5	0.00500
## 527	0	47.5	0.00500
## 528	0	22.5	0.00500
## 529	0	18.5	0.00500
## 530	0	17.5	0.00500
## 531	0	18.5	0.00500
## 532	10	65.0	0.00500
## 533	0	32.5	0.00500
## 534	0	47.5	0.00500
## 535	0	13.5	0.00500
## 536	0	32.5	0.00500
## 537	0	65.0	0.00500
## 538	6	42.5	0.00500
## 539	0	32.5	0.00500
## 540	0	42.5	0.00500
## 541	0	37.5	0.00500
## 542	0	9.5	0.00500
## 543	0	37.5	0.00500
## 544	0	65.0	0.00500
## 545	0	42.5	0.00500
## 546	0	37.5	0.00500
## 547	20	9.5	0.00500
## 548	0	19.5	0.00500
## 549	0	19.5	0.00500

## 550	0	47.5	0.00500
## 551	5	42.5	0.00500
## 552	0	27.5	0.00500
## 553	20	65.0	0.00500
## 554	0	32.5	0.00500
## 555	0	47.5	0.00500
## 556	0	65.0	0.00500
## 557	0	6.5	0.00500
## 558	0	42.5	0.00500
## 559	10	19.5	0.00500
## 560	2	65.0	0.00500
## 561	0	27.5	0.00500
## 562	5	37.5	0.00500
## 563	0	27.5	0.00500
## 564	0	22.5	0.00500
## 565	0	27.5	0.00500
## 566	1	37.5	0.00500
## 567	0	22.5	0.00500
## 568	20	27.5	0.00500
## 569	0	32.5	0.00500
## 570	0	32.5	0.00500
## 571	0	37.5	0.00500
## 572	0	37.5	0.00500
## 573	0	19.5	0.00500
## 574	0	65.0	0.00500
## 575	0	65.0	0.00500
## 576	0	32.5	0.00500
## 577	0	42.5	0.00500
## 578	0	22.5	0.00500
## 579	0	22.5	0.00500
## 580	10	16.5	0.00500
## 581	0	22.5	0.00500
## 582	0	22.5	0.00500
## 583	0	65.0	0.00500
## 584	10	13.5	0.00500
## 585	0	32.5	0.00500
## 586	0	37.5	0.00500
## 587	0	37.5	0.00500
## 588	0	27.5	0.00500

## 589	20	6.5	0.00500
## 590	0	19.5	0.00500
## 591	0	32.5	0.00500
## 592	0	22.5	0.00500
## 593	0	65.0	0.00500
## 594	0	27.5	0.00500
## 595	0	18.5	0.00500
## 596	0	47.5	0.00500
## 597	0	1.5	0.00500
## 598	0	42.5	0.00500
## 599	0	1.5	0.00500
## 600	0	65.0	0.00500
## 601	0	22.5	0.00500
## 602	0	42.5	0.00500
## 603	0	0.5	0.00500
## 604	0	47.5	0.00500
## 605	0	65.0	0.00500
## 606	20	11.5	0.00500
## 607	20	5.5	0.00500
## 608	0	65.0	0.00500
## 609	3	2.5	0.00500
## 610	0	65.0	0.00500
## 611	10	32.5	0.00500
## 612	0	2.5	0.00500
## 613	0	47.5	0.00500
## 614	0	5.5	0.00500
## 615	0	65.0	0.00500
## 616	20	11.5	0.00500
## 617	40	22.5	0.00500
## 618	0	65.0	0.00500
## 619	0	13.5	0.00500
## 620	0	27.5	0.00500
## 621	0	65.0	0.00500
## 622	20	32.5	0.00500
## 623	0	65.0	0.00500
## 624	0	8.5	0.00500
## 625	0	27.5	0.00500
## 626	0	65.0	0.00500
## 627	0	32.5	0.00500

## 628	8	5.5	0.00500
## 629	20	22.5	0.00500
## 630	0	5.5	0.00500
## 631	0	27.5	0.00500
## 632	0	7.5	0.00500
## 633	10	4.5	0.00500
## 634	0	42.5	0.00500
## 635	0	32.5	0.00500
## 636	0	22.5	0.00500
## 637	0	27.5	0.00500
## 638	0	47.5	0.00500
## 639	0	32.5	0.00500
## 640	0	3.5	0.00500
## 641	7	32.5	0.00500
## 642	0	9.5	0.00500
## 643	0	47.5	0.00500
## 644	0	42.5	0.00500
## 645	0	9.5	0.00500
## 646	0	18.5	0.00500
## 647	0	37.5	0.00500
## 648	0	27.5	0.00500
## 649	0	37.5	0.00500
## 650	0	18.5	0.00500
## 651	0	65.0	0.00500
## 652	0	32.5	0.00500
## 653	0	27.5	0.00500
## 654	0	65.0	0.00500
## 655	8	22.5	0.00500
## 656	0	65.0	0.00500
## 657	0	37.5	0.00500
## 658	0	22.5	0.00500
## 659	0	47.5	0.00500
## 660	0	42.5	0.00500
## 661	0	12.5	0.00500
## 662	0	18.5	0.00500
## 663	20	6.5	0.00500
## 664	0	42.5	0.00500
## 665	0	27.5	0.00500
## 666	0	65.0	0.00500

## 667	0	65.0	0.00500
## 668	0	27.5	0.00500
## 669	10	27.5	0.00500
## 670	0	42.5	0.00500
## 671	0	27.5	0.00500
## 672	0	65.0	0.00500
## 673	0	65.0	0.00500
## 674	0	27.5	0.00500
## 675	0	27.5	0.00500
## 676	0	65.0	0.00500
## 677	0	14.5	0.00500
## 678	0	22.5	0.00500
## 679	0	10.5	0.00500
## 680	0	15.5	0.00500
## 681	0	32.5	0.00500
## 682	0	32.5	0.00500
## 683	0	4.5	0.00500
## 684	0	6.5	0.00500
## 685	0	8.5	0.00500
## 686	0	32.5	0.00500
## 687	0	32.5	0.00500
## 688	0	32.5	0.00500
## 689	0	47.5	0.00500
## 690	20	17.5	0.00500
## 691	0	37.5	0.00500
## 692	0	27.5	0.00500
## 693	0	7.5	0.00500
## 694	0	10.5	0.00500
## 695	0	22.5	0.00500
## 696	0	27.5	0.00500
## 697	5	32.5	0.00500
## 698	0	37.5	0.00500
## 699	0	4.5	0.00500
## 700	0	2.5	0.00500
## 701	0	47.5	0.00500
## 702	10	22.5	0.00500
## 703	0	1.5	0.00500
## 704	0	22.5	0.00500
## 705	0	27.5	0.00500

## 706	0	65.0	0.00500
## 707	0	42.5	0.00500
## 708	0	12.5	0.00500
## 709	0	47.5	0.00500
## 710	20	32.5	0.00500
## 711	15	37.5	0.00500
## 712	0	42.5	0.00500
## 713	0	22.5	0.00500
## 714	0	17.5	0.00500
## 715	0	32.5	0.00500
## 716	0	22.5	0.00500
## 717	0	18.5	0.00500
## 718	7	32.5	0.00500
## 719	0	27.5	0.00500
## 720	0	3.5	0.00500
## 721	0	15.5	0.00500
## 722	0	65.0	0.00500
## 723	0	37.5	0.00500
## 724	0	32.5	0.00500
## 725	0	9.5	0.00500
## 726	15	22.5	0.00500
## 727	0	42.5	0.00500
## 728	0	65.0	0.00500
## 729	1	37.5	0.00500
## 730	0	22.5	0.00500
## 731	0	15.5	0.00500
## 732	15	42.5	0.00500
## 733	0	14.5	0.00500
## 734	0	37.5	0.00500
## 735	0	22.5	0.00500
## 736	0	65.0	0.00500
## 737	0	47.5	0.00500
## 738	0	10.5	0.00500
## 739	0	65.0	0.00500
## 740	0	27.5	0.00500
## 741	0	65.0	0.00500
## 742	0	27.5	0.00500
## 743	0	65.0	0.00500
## 744	5	16.5	0.00500

## 745	10	65.0	0.00500
## 746	0	42.5	0.00500
## 747	0	12.5	0.00500
## 748	0	11.5	0.00500
## 749	0	37.5	0.00500
## 750	12	65.0	0.00500
## 751	0	32.5	0.00500
## 752	0	65.0	0.00500
## 753	10	65.0	0.00500
## 754	0	65.0	0.00500
## 755	0	65.0	0.00500
## 756	20	22.5	0.00500
## 757	0	65.0	0.00500
## 758	10	47.5	0.00500
## 759	10	27.5	0.00500
## 760	0	65.0	0.00500
## 761	0	65.0	0.00500
## 762	0	32.5	0.00500
## 763	0	22.5	0.00500
## 764	0	65.0	0.00500
## 765	0	65.0	0.00500
## 766	0	6.5	0.00500
## 767	0	65.0	0.00500
## 768	4	37.5	0.00500
## 769	0	65.0	0.00500
## 770	0	32.5	0.00500
## 771	0	27.5	0.00500
## 772	0	65.0	0.00500
## 773	0	27.5	0.00500
## 774	0	22.5	0.00500
## 775	0	22.5	0.00500
## 776	0	13.5	0.00500
## 777	0	22.5	0.00500
## 778	0	32.5	0.00500
## 779	0	12.5	0.00500
## 780	4	6.5	0.00500
## 781	15	22.5	0.00500
## 782	0	42.5	0.00500
## 783	0	42.5	0.00500

## 784	0	65.0	0.00500
## 785	0	27.5	0.00500
## 786	0	22.5	0.00500
## 787	0	65.0	0.00500
## 788	3	37.5	0.00500
## 789	0	65.0	0.00500
## 790	0	32.5	0.00500
## 791	0	65.0	0.00500
## 792	0	65.0	0.00500
## 793	0	22.5	0.00500
## 794	0	22.5	0.00500
## 795	0	17.5	0.00500
## 796	0	19.5	0.00500
## 797	0	27.5	0.00500
## 798	10	47.5	0.00500
## 799	0	47.5	0.00500
## 800	0	22.5	0.00500
## 801	0	9.5	0.00500
## 802	0	42.5	0.00500
## 803	10	10.5	0.00500
## 804	0	65.0	0.00500
## 805	0	47.5	0.00500
## 806	0	42.5	0.00500
## 807	20	22.5	0.00500
## 808	0	27.5	0.00500
## 809	0	65.0	0.00500
## 810	0	8.5	0.00500
## 811	0	22.5	0.00500
## 812	0	19.5	0.00500
## 813	0	8.5	0.00500
## 814	0	47.5	0.00500
## 815	0	8.5	0.00500
## 816	2	4.5	0.00500
## 817	0	65.0	0.00500
## 818	0	32.5	0.00500
## 819	0	12.5	0.00500
## 820	0	65.0	0.00500
## 821	10	19.5	0.00500
## 822	0	22.5	0.00500

## 823	0	27.5	0.00500
## 824	0	19.5	0.00500
## 825	0	15.5	0.00500
## 826	0	37.5	0.00500
## 827	0	13.5	0.00500
## 828	0	42.5	0.00500
## 829	0	65.0	0.00500
## 830	20	32.5	0.00500
## 831	0	37.5	0.00500
## 832	10	47.5	0.00500
## 833	0	65.0	0.00500
## 834	0	22.5	0.00500
## 835	0	27.5	0.00500
## 836	0	22.5	0.00500
## 837	0	27.5	0.00500
## 838	0	12.5	0.00500
## 839	0	19.5	0.00500
## 840	0	42.5	0.00500
## 841	0	27.5	0.00500
## 842	0	32.5	0.00500
## 843	0	65.0	0.00500
## 844	5	47.5	0.00500
## 845	0	27.5	0.00500
## 846	10	32.5	0.00500
## 847	0	65.0	0.00500
## 848	0	22.5	0.00500
## 849	0	65.0	0.00500
## 850	0	42.5	0.00500
## 851	0	32.5	0.00500
## 852	0	65.0	0.00500
## 853	0	42.5	0.00500
## 854	0	27.5	0.00500
## 855	0	65.0	0.00500
## 856	0	5.5	0.00500
## 857	0	22.5	0.00500
## 858	0	37.5	0.00500
## 859	0	2.5	0.00500
## 860	0	6.5	0.00500
## 861	0	18.5	0.00500

## 862	0	13.5	0.00500
## 863	20	12.5	0.00500
## 864	0	19.5	0.00500
## 865	0	9.5	0.00500
## 866	0	9.5	0.00500
## 867	0	13.5	0.00500
## 868	0	47.5	0.00500
## 869	0	10.5	0.00500
## 870	0	37.5	0.00500
## 871	0	27.5	0.00500
## 872	0	19.5	0.00500
## 873	0	15.5	0.00500
## 874	10	16.5	0.00500
## 875	0	32.5	0.00500
## 876	0	11.5	0.00500
## 877	0	10.5	0.00500
## 878	0	16.5	0.00500
## 879	0	9.5	0.00500
## 880	10	12.5	0.00500
## 881	0	9.5	0.00500
## 882	0	22.5	0.00500
## 883	30	22.5	0.00500
## 884	10	27.5	0.00500
## 885	20	11.5	0.00500
## 886	0	5.5	0.00500
## 887	10	19.5	0.00500
## 888	0	11.5	0.00500
## 889	0	27.5	0.00500
## 890	0	42.5	0.00500
## 891	0	3.5	0.00500
## 892	0	65.0	0.00500
## 893	0	16.5	0.00500
## 894	0	42.5	0.00500
## 895	30	2.5	0.00500
## 896	30	3.5	0.00500
## 897	0	8.5	0.00500
## 898	0	27.5	0.00500
## 899	0	12.5	0.00500
## 900	4	4.5	0.00500

## 901	0	37.5	0.00500
## 902	0	32.5	0.00500
## 903	0	22.5	0.00500
## 904	0	37.5	0.00500
## 905	0	19.5	0.00500
## 906	10	9.5	0.00500
## 907	3	13.5	0.00500
## 908	0	2.5	0.00500
## 909	0	0.5	0.00500
## 910	0	10.5	0.00500
## 911	0	47.5	0.00500
## 912	0	42.5	0.00500
## 913	20	3.5	0.00500
## 914	0	27.5	0.00500
## 915	0	19.5	0.00500
## 916	0	37.5	0.00500
## 917	3	7.5	0.00500
## 918	20	22.5	0.00500
## 919	7	22.5	0.00500
## 920	0	47.5	0.00500
## 921	20	27.5	0.00500
## 922	0	4.5	0.00500
## 923	0	18.5	0.00500
## 924	0	32.5	0.00500
## 925	0	37.5	0.00500
## 926	2	6.5	0.00500
## 927	0	42.5	0.00500
## 928	0	47.5	0.00500
## 929	10	14.5	0.00500
## 930	0	4.5	0.00500
## 931	0	65.0	0.00500
## 932	20	12.5	0.00500
## 933	0	37.5	0.00500
## 934	0	32.5	0.00500
## 935	0	6.5	0.00500
## 936	5	11.5	0.00500
## 937	0	14.5	0.00500
## 938	0	27.5	0.00500
## 939	0	32.5	0.00500

## 940	0	15.5	0.00500
## 941	10	22.5	0.00500
## 942	20	22.5	0.00500
## 943	0	65.0	0.00500
## 944	0	47.5	0.00500
## 945	0	17.5	0.00500
## 946	20	27.5	0.00500
## 947	0	32.5	0.00500
## 948	0	65.0	0.00500
## 949	0	65.0	0.00500
## 950	0	65.0	0.00500
## 951	0	32.5	0.00500
## 952	0	18.5	0.00500
## 953	0	42.5	0.00500
## 954	0	7.5	0.00500
## 955	5	37.5	0.00500
## 956	0	37.5	0.00500
## 957	0	1.5	0.00500
## 958	7	17.5	0.00500
## 959	0	65.0	0.00500
## 960	0	3.5	0.00500
## 961	0	4.5	0.00500
## 962	15	22.5	0.00500
## 963	0	22.5	0.00500
## 964	0	3.5	0.00500
## 965	0	17.5	0.00500
## 966	0	16.5	0.00500
## 967	0	10.5	0.00500
## 968	0	22.5	0.00500
## 969	4	3.5	0.00500
## 970	10	8.5	0.00500
## 971	0	1.5	0.00500
## 972	0	65.0	0.00500
## 973	0	42.5	0.00500
## 974	0	22.5	0.00500
## 975	15	17.5	0.00500
## 976	15	18.5	0.00500
## 977	40	5.5	0.00500
## 978	0	13.5	0.00500

## 979	0	17.5	0.00500
## 980	10	19.5	0.00500
## 981	0	65.0	0.00500
## 982	0	11.5	0.00500
## 983	0	65.0	0.00500
## 984	0	2.5	0.00500
## 985	0	65.0	0.00500
## 986	20	10.5	0.00500
## 987	0	42.5	0.00500
## 988	0	19.5	0.00500
## 989	0	5.5	0.00500
## 990	0	0.5	0.00500
## 991	0	65.0	0.00500
## 992	0	47.5	0.00500
## 993	0	14.5	0.00500
## 994	0	27.5	0.00500
## 995	20	22.5	0.00500
## 996	20	19.5	0.00500
## 997	0	15.5	0.00500
## 998	10	0.5	0.00500
## 999	0	47.5	0.00500
## 1000	0	22.5	0.00500
## 1001	0	15.5	0.00500
## 1002	10	17.5	0.00500
## 1003	0	47.5	0.00500
## 1004	0	15.5	0.00500
## 1005	0	18.5	0.00500
## 1006	10	2.5	0.00500
## 1007	0	18.5	0.00500
## 1008	0	27.5	0.00500
## 1009	0	32.5	0.00500
## 1010	15	19.5	0.00500
## 1011	15	32.5	0.00500
## 1012	0	22.5	0.00500
## 1013	0	19.5	0.00500
## 1014	0	6.5	0.00500
## 1015	0	27.5	0.00500
## 1016	0	10.5	0.00500
## 1017	0	47.5	0.00500

##	1018	0	19.5	0.00500
##	1019	0	22.5	0.00500
##	1020	20	15.5	0.00500
##	1021	0	8.5	0.00500
##	1022	5	19.5	0.00500
##	1023	0	1.5	0.00500
##	1024	6	14.5	0.00500
##	1025	0	27.5	0.00500
##	1026	20	5.5	0.00500
##	1027	0	5.5	0.00500
##	1028	0	14.5	0.00500
##	1029	0	32.5	0.00500
##	1030	0	22.5	0.00500
##	1031	0	22.5	0.00500
##	1032	0	27.5	0.00500
##	1033	10	27.5	0.00500
##	1034	0	13.5	0.00500
##	1035	0	22.5	0.00500
##	1036	0	22.5	0.00500
##	1037	0	65.0	0.00500
##	1038	0	19.5	0.00500
##	1039	0	37.5	0.00500
##	1040	0	32.5	0.00500
##	1041	0	11.5	0.00500
##	1042	0	27.5	0.00500
##	1043	20	17.5	0.00500
##	1044	0	37.5	0.00500
##	1045	0	10.5	0.00500
##	1046	0	32.5	0.00500
##	1047	0	37.5	0.00500
##	1048	0	32.5	0.00500
##	1049	0	37.5	0.00500
##	1050	10	2.5	0.00500
##	1051	0	15.5	0.00500
##	1052	0	42.5	0.00500
##	1053	0	22.5	0.00500
##	1054	0	22.5	0.00500
##	1055	0	2.5	0.00500
##	1056	0	32.5	0.00500

##	1057	0	32.5	0.00500
##	1058	0	18.5	0.00500
##	1059	0	27.5	0.00500
##	1060	0	2.5	0.00500
##	1061	20	6.5	0.00500
##	1062	0	37.5	0.00500
##	1063	0	65.0	0.00500
##	1064	0	47.5	0.00500
##	1065	0	42.5	0.00500
##	1066	0	27.5	0.00500
##	1067	0	32.5	0.00500
##	1068	20	42.5	0.00500
##	1069	0	17.5	0.00500
##	1070	0	42.5	0.00500
##	1071	10	19.5	0.00500
##	1072	0	32.5	0.00500
##	1073	0	42.5	0.00500
##	1074	20	14.5	0.00500
##	1075	0	15.5	0.00500
##	1076	0	32.5	0.00500
##	1077	0	37.5	0.00500
##	1078	0	6.5	0.00500
##	1079	0	32.5	0.00500
##	1080	0	42.5	0.00500
##	1081	20	27.5	0.00500
##	1082	0	65.0	0.00500
##	1083	0	65.0	0.00500
##	1084	0	27.5	0.00500
##	1085	0	32.5	0.00500
##	1086	0	32.5	0.00500
##	1087	0	37.5	0.00500
##	1088	10	18.5	0.00500
##	1089	0	22.5	0.00500
##	1090	6	42.5	0.00500
##	1091	0	27.5	0.00500
##	1092	0	37.5	0.00500
##	1093	0	11.5	0.00500
##	1094	0	18.5	0.00500
##	1095	0	3.5	0.00500

##	1096	0	18.5	0.00500
##	1097	0	13.5	0.00500
##	1098	0	22.5	0.00500
##	1099	0	65.0	0.00500
##	1100	0	22.5	0.00500
##	1101	0	16.5	0.00500
##	1102	0	27.5	0.00500
##	1103	0	42.5	0.00500
##	1104	2	3.5	0.00500
##	1105	0	22.5	0.00500
##	1106	0	19.5	0.00500
##	1107	0	12.5	0.00500
##	1108	20	9.5	0.00500
##	1109	10	4.5	0.00500
##	1110	0	27.5	0.00500
##	1111	0	47.5	0.00500
##	1112	0	22.5	0.00500
##	1113	0	9.5	0.00500
##	1114	0	65.0	0.00500
##	1115	0	7.5	0.00500
##	1116	0	65.0	0.00500
##	1117	0	4.5	0.00500
##	1118	0	27.5	0.00500
##	1119	0	19.5	0.00500
##	1120	0	6.5	0.00500
##	1121	0	16.5	0.00500
##	1122	0	65.0	0.00500
##	1123	0	22.5	0.00500
##	1124	0	2.5	0.00500
##	1125	0	22.5	0.00500
##	1126	0	32.5	0.00500
##	1127	0	9.5	0.00500
##	1128	0	16.5	0.00500
##	1129	0	32.5	0.00500
##	1130	0	17.5	0.00500
##	1131	0	6.5	0.00500
##	1132	0	65.0	0.00500
##	1133	0	37.5	0.00500
##	1134	4	17.5	0.00500

##	1135	0	19.5	0.00500
##	1136	0	32.5	0.00500
##	1137	6	42.5	0.00500
##	1138	0	32.5	0.00500
##	1139	0	18.5	0.00500
##	1140	10	22.5	0.00500
##	1141	3	22.5	0.00500
##	1142	0	32.5	0.00500
##	1143	0	18.5	0.00500
##	1144	0	12.5	0.00500
##	1145	0	9.5	0.00500
##	1146	0	22.5	0.00500
##	1147	0	27.5	0.00500
##	1148	0	0.5	0.00500
##	1149	0	22.5	0.00500
##	1150	0	6.5	0.00500
##	1151	0	65.0	0.00500
##	1152	0	19.5	0.00500
##	1153	0	27.5	0.00500
##	1154	0	12.5	0.00500
##	1155	0	42.5	0.00500
##	1156	0	13.5	0.00500
##	1157	0	65.0	0.00500
##	1158	0	2.5	0.00500
##	1159	0	65.0	0.00500
##	1160	0	9.5	0.00500
##	1161	0	37.5	0.00500
##	1162	0	19.5	0.00500
##	1163	0	17.5	0.00500
##	1164	0	9.5	0.00500
##	1165	0	65.0	0.00500
##	1166	0	65.0	0.00500
##	1167	5	14.5	0.00500
##	1168	5	32.5	0.00500
##	1169	0	17.5	0.00500
##	1170	0	2.5	0.00500
##	1171	0	18.5	0.00500
##	1172	0	22.5	0.00500
##	1173	20	65.0	0.00500

## 1174	0	65.0	0.00500
## 1175	6	22.5	0.00500
## 1176	0	0.5	0.00500
## 1177	0	22.5	0.00500
## 1178	0	47.5	0.00500
## 1179	0	65.0	0.00500
## 1180	0	65.0	0.00500
## 1181	0	32.5	0.00500
## 1182	0	65.0	0.00500
## 1183	0	0.5	0.00500
## 1184	0	65.0	0.00500
## 1185	0	42.5	0.00500
## 1186	0	13.5	0.00500
## 1187	0	22.5	0.00500
## 1188	0	65.0	0.00500
## 1189	0	16.5	0.00500
## 1190	20	9.5	0.00500
## 1191	15	19.5	0.00500
## 1192	0	11.5	0.00500
## 1193	0	8.5	0.00500
## 1194	0	42.5	0.00500
## 1195	0	27.5	0.00500
## 1196	0	14.5	0.00500
## 1197	8	4.5	0.00500
## 1198	0	15.5	0.00500
## 1199	0	27.5	0.00500
## 1200	0	65.0	0.00500
## 1201	0	16.5	0.00500
## 1202	0	37.5	0.00500
## 1203	0	65.0	0.00500
## 1204	0	37.5	0.00500
## 1205	0	7.5	0.00500
## 1206	0	22.5	0.00500
## 1207	0	47.5	0.00500
## 1208	0	32.5	0.00500
## 1209	5	4.5	0.00500
## 1210	0	32.5	0.00500
## 1211	0	15.5	0.00500
## 1212	10	1.5	0.00500

##	1213	0	65.0	0.00500
##	1214	0	37.5	0.00500
##	1215	0	12.5	0.00500
##	1216	0	16.5	0.00500
##	1217	0	47.5	0.00500
##	1218	0	0.5	0.00500
##	1219	0	18.5	0.00500
##	1220	0	32.5	0.00500
##	1221	0	13.5	0.00500
##	1222	0	2.5	0.00500
##	1223	0	47.5	0.00500
##	1224	0	32.5	0.00500
##	1225	0	22.5	0.00500
##	1226	0	65.0	0.00500
##	1227	0	9.5	0.00500
##	1228	0	65.0	0.00500
##	1229	15	8.5	0.00500
##	1230	0	9.5	0.00500
##	1231	0	22.5	0.00500
##	1232	0	22.5	0.00500
##	1233	12	65.0	0.00500
##	1234	0	22.5	0.00500
##	1235	10	22.5	0.00500
##	1236	0	10.5	0.00500
##	1237	0	2.5	0.00500
##	1238	0	9.5	0.00500
##	1239	0	4.5	0.00500
##	1240	46	0.5	0.00500
##	1241	0	32.5	0.00500
##	1242	0	47.5	0.00500
##	1243	0	5.5	0.00500
##	1244	0	17.5	0.00500
##	1245	20	10.5	0.00500
##	1246	0	12.5	0.00500
##	1247	0	9.5	0.00500
##	1248	5	22.5	0.00500
##	1249	0	32.5	0.00500
##	1250	0	22.5	0.00500
##	1251	0	8.5	0.00500

##	1252	0	1.5	0.00500
##	1253	0	32.5	0.00500
##	1254	0	15.5	0.00500
##	1255	0	37.5	0.00500
##	1256	0	47.5	0.00500
##	1257	0	65.0	0.00500
##	1258	0	27.5	0.00500
##	1259	0	27.5	0.00500
##	1260	0	65.0	0.00500
##	1261	0	32.5	0.00500
##	1262	0	7.5	0.00500
##	1263	0	4.5	0.00500
##	1264	40	22.5	0.00500
##	1265	0	8.5	0.00500
##	1266	0	6.5	0.00500
##	1267	0	27.5	0.00500
##	1268	0	18.5	0.00500
##	1269	0	27.5	0.00500
##	1270	0	27.5	0.00500
##	1271	0	22.5	0.00500
##	1272	0	27.5	0.00500
##	1273	0	19.5	0.00500
##	1274	0	27.5	0.00500
##	1275	0	37.5	0.00500
##	1276	20	6.5	0.00500
##	1277	0	32.5	0.00500
##	1278	0	15.5	0.00500
##	1279	0	27.5	0.00500
##	1280	12	42.5	0.00500
##	1281	0	32.5	0.00500
##	1282	0	47.5	0.00500
##	1283	0	16.5	0.00500
##	1284	0	42.5	0.00500
##	1285	0	5.5	0.00500
##	1286	0	22.5	0.00500
##	1287	0	65.0	0.00500
##	1288	10	27.5	0.00500
##	1289	0	42.5	0.00500
##	1290	0	32.5	0.00500

## 1291	20	4.5	0.00500
## 1292	5	12.5	0.00500
## 1293	0	65.0	0.00500
## 1294	0	65.0	0.00500
## 1295	0	22.5	0.00500
## 1296	0	32.5	0.00500
## 1297	0	65.0	0.00500
## 1298	0	65.0	0.00500
## 1299	0	8.5	0.00500
## 1300	0	47.5	0.00500
## 1301	0	3.5	0.00500
## 1302	0	22.5	0.00500
## 1303	0	65.0	0.00500
## 1304	50	27.5	0.00500
## 1305	0	65.0	0.00500
## 1306	0	10.5	0.00500
## 1307	0	65.0	0.00500
## 1308	0	19.5	0.00500
## 1309	0	22.5	0.00500
## 1310	0	18.5	0.00500
## 1311	0	19.5	0.00500
## 1312	0	22.5	0.00500
## 1313	0	16.5	0.00500
## 1314	0	65.0	0.00500
## 1315	0	65.0	0.00500
## 1316	20	22.5	0.00500
## 1317	0	32.5	0.00500
## 1318	0	42.5	0.00500
## 1319	0	6.5	0.00500
## 1320	0	27.5	0.00500
## 1321	0	14.5	0.00500
## 1322	0	32.5	0.00500
## 1323	5	65.0	0.00500
## 1324	0	15.5	0.00500
## 1325	15	22.5	0.00500
## 1326	0	32.5	0.00500
## 1327	0	6.5	0.00500
## 1328	0	15.5	0.00500
## 1329	0	27.5	0.00500

## 1330	0	17.5	0.00500
## 1331	0	37.5	0.00500
## 1332	10	22.5	0.00500
## 1333	9	4.5	0.00500
## 1334	0	18.5	0.00500
## 1335	0	22.5	0.00500
## 1336	0	37.5	0.00500
## 1337	15	5.5	0.00500
## 1338	0	16.5	0.00500
## 1339	0	17.5	0.00500
## 1340	0	6.5	0.00500
## 1341	0	6.5	0.00500
## 1342	0	32.5	0.00500
## 1343	0	22.5	0.00500
## 1344	0	15.5	0.00500
## 1345	10	6.5	0.00500
## 1346	0	27.5	0.00500
## 1347	0	42.5	0.00500
## 1348	15	9.5	0.00500
## 1349	20	32.5	0.00500
## 1350	0	22.5	0.00500
## 1351	0	4.5	0.00500
## 1352	0	27.5	0.00500
## 1353	0	37.5	0.00500
## 1354	0	8.5	0.00500
## 1355	0	27.5	0.00500
## 1356	0	47.5	0.00500
## 1357	0	32.5	0.00500
## 1358	0	27.5	0.00500
## 1359	0	6.5	0.00500
## 1360	3	12.5	0.00500
## 1361	0	32.5	0.00500
## 1362	10	5.5	0.00500
## 1363	0	22.5	0.00500
## 1364	0	10.5	0.00500
## 1365	0	32.5	0.00500
## 1366	0	32.5	0.00500
## 1367	0	27.5	0.00500
## 1368	15	12.5	0.00500

## 1369	0	8.5	0.00500
## 1370	0	42.5	0.00500
## 1371	0	4.5	0.00500
## 1372	0	37.5	0.00500
## 1373	0	18.5	0.00500
## 1374	0	42.5	0.00500
## 1375	0	42.5	0.00500
## 1376	20	17.5	0.00500
## 1377	0	47.5	0.00500
## 1378	0	22.5	0.00500
## 1379	0	15.5	0.00500
## 1380	0	1.5	0.00500
## 1381	0	5.5	0.00500
## 1382	0	12.5	0.00500
## 1383	0	22.5	0.00500
## 1384	0	27.5	0.00500
## 1385	0	5.5	0.00500
## 1386	0	65.0	0.00500
## 1387	0	27.5	0.00500
## 1388	0	37.5	0.00500
## 1389	0	13.5	0.00645
## 1390	0	7.5	0.00645
## 1391	0	0.5	0.00645
## 1392	0	15.5	0.00645
## 1393	0	27.5	0.00645
## 1394	0	7.5	0.00645
## 1395	0	65.0	0.00645
## 1396	0	27.5	0.00645
## 1397	0	27.5	0.00645
## 1398	0	37.5	0.00645
## 1399	0	27.5	0.00645
## 1400	0	27.5	0.00645
## 1401	0	6.5	0.00645
## 1402	0	10.5	0.00645
## 1403	0	12.5	0.00645
## 1404	0	17.5	0.00645
## 1405	0	42.5	0.00645
## 1406	0	4.5	0.00645
## 1407	0	32.5	0.00645

## 1408	0	6.5	0.00645
## 1409	0	47.5	0.00645
## 1410	0	22.5	0.00645
## 1411	6	15.5	0.00645
## 1412	0	13.5	0.00645
## 1413	0	37.5	0.00645
## 1414	0	2.5	0.00645
## 1415	0	2.5	0.00645
## 1416	0	32.5	0.00645
## 1417	0	22.5	0.00645
## 1418	0	0.5	0.00645
## 1419	0	65.0	0.00645
## 1420	0	65.0	0.00645
## 1421	0	65.0	0.00645
## 1422	0	27.5	0.00645
## 1423	0	7.5	0.00645
## 1424	0	47.5	0.00645
## 1425	0	65.0	0.00645
## 1426	0	65.0	0.00645
## 1427	0	32.5	0.00645
## 1428	0	13.5	0.00645
## 1429	0	65.0	0.00645
## 1430	0	47.5	0.00645
## 1431	0	37.5	0.00645
## 1432	0	32.5	0.00645
## 1433	0	18.5	0.00645
## 1434	0	65.0	0.00645
## 1435	0	65.0	0.00645
## 1436	0	11.5	0.00645
## 1437	0	32.5	0.00645
## 1438	0	65.0	0.00645
## 1439	0	17.5	0.00645
## 1440	0	16.5	0.00645
## 1441	0	22.5	0.00645
## 1442	0	42.5	0.00645
## 1443	0	32.5	0.00645
## 1444	0	11.5	0.00645
## 1445	0	65.0	0.00645
## 1446	0	27.5	0.00645

##	1447	0	27.5	0.00645
##	1448	0	17.5	0.00645
##	1449	0	65.0	0.00645
##	1450	0	3.5	0.00645
##	1451	0	0.5	0.00645
##	1452	10	0.5	0.00645
##	1453	0	3.5	0.00645
##	1454	0	65.0	0.00645
##	1455	0	22.5	0.00645
##	1456	0	22.5	0.00645
##	1457	20	7.5	0.00645
##	1458	0	27.5	0.00645
##	1459	0	18.5	0.00645
##	1460	0	37.5	0.00645
##	1461	0	22.5	0.00645
##	1462	0	27.5	0.00645
##	1463	40	18.5	0.00645
##	1464	0	22.5	0.00645
##	1465	0	0.5	0.00645
##	1466	0	32.5	0.00645
##	1467	0	27.5	0.00645
##	1468	0	32.5	0.00645
##	1469	0	15.5	0.00645
##	1470	0	16.5	0.00645
##	1471	0	19.5	0.00645
##	1472	0	15.5	0.00645
##	1473	0	14.5	0.00645
##	1474	0	32.5	0.00645
##	1475	0	14.5	0.00645
##	1476	0	8.5	0.00645
##	1477	0	8.5	0.00645
##	1478	0	7.5	0.00645
##	1479	0	32.5	0.00645
##	1480	0	65.0	0.00645
##	1481	10	7.5	0.00645
##	1482	0	27.5	0.00645
##	1483	10	13.5	0.00645
##	1484	0	27.5	0.00645
##	1485	0	18.5	0.00645

## 1486	20	22.5	0.00645
## 1487	0	65.0	0.00645
## 1488	0	22.5	0.00645
## 1489	0	42.5	0.00645
## 1490	0	37.5	0.00645
## 1491	3	11.5	0.00645
## 1492	0	65.0	0.00645
## 1493	0	7.5	0.00645
## 1494	0	22.5	0.00645
## 1495	0	65.0	0.00645
## 1496	10	27.5	0.00645
## 1497	0	7.5	0.00645
## 1498	0	65.0	0.00645
## 1499	0	8.5	0.00645
## 1500	0	12.5	0.00645
## 1501	0	37.5	0.00645
## 1502	0	14.5	0.00645
## 1503	0	65.0	0.00645
## 1504	20	37.5	0.00645
## 1505	0	27.5	0.00645
## 1506	0	65.0	0.00645
## 1507	0	32.5	0.00645
## 1508	0	6.5	0.00645
## 1509	0	65.0	0.00645
## 1510	40	6.5	0.00645
## 1511	0	65.0	0.00645
## 1512	0	65.0	0.00645
## 1513	0	7.5	0.00645
## 1514	0	17.5	0.00645
## 1515	0	27.5	0.00645
## 1516	0	37.5	0.00645
## 1517	0	22.5	0.00645
## 1518	0	22.5	0.00645
## 1519	0	65.0	0.00645
## 1520	0	42.5	0.00645
## 1521	0	2.5	0.00645
## 1522	0	10.5	0.00645
## 1523	0	42.5	0.00645
## 1524	0	14.5	0.00645

## 1525	0	42.5	0.00645
## 1526	0	32.5	0.00645
## 1527	0	3.5	0.00645
## 1528	0	42.5	0.00645
## 1529	0	15.5	0.00645
## 1530	0	32.5	0.00645
## 1531	0	19.5	0.00645
## 1532	0	42.5	0.00645
## 1533	0	65.0	0.00645
## 1534	0	13.5	0.00645
## 1535	0	27.5	0.00645
## 1536	0	42.5	0.00645
## 1537	0	5.5	0.00645
## 1538	0	5.5	0.00645
## 1539	0	65.0	0.00645
## 1540	0	22.5	0.00645
## 1541	0	18.5	0.00645
## 1542	0	27.5	0.00645
## 1543	0	65.0	0.00645
## 1544	4	32.5	0.00645
## 1545	0	22.5	0.00645
## 1546	0	37.5	0.00645
## 1547	0	65.0	0.00645
## 1548	0	1.5	0.00645
## 1549	0	27.5	0.00645
## 1550	0	47.5	0.00645
## 1551	0	32.5	0.00645
## 1552	0	65.0	0.00645
## 1553	0	8.5	0.00645
## 1554	0	65.0	0.00645
## 1555	0	27.5	0.00645
## 1556	0	37.5	0.00645
## 1557	0	37.5	0.00645
## 1558	0	22.5	0.00645
## 1559	0	37.5	0.00645
## 1560	5	8.5	0.00645
## 1561	0	42.5	0.00645
## 1562	0	65.0	0.00645
## 1563	0	12.5	0.00645

## 1564	0	27.5	0.00645
## 1565	0	27.5	0.00645
## 1566	0	65.0	0.00645
## 1567	0	22.5	0.00645
## 1568	0	18.5	0.00645
## 1569	0	13.5	0.00645
## 1570	0	18.5	0.00645
## 1571	0	27.5	0.00645
## 1572	0	22.5	0.00645
## 1573	0	65.0	0.00645
## 1574	10	32.5	0.00645
## 1575	0	22.5	0.00645
## 1576	0	37.5	0.00645
## 1577	20	47.5	0.00645
## 1578	0	65.0	0.00645
## 1579	0	32.5	0.00645
## 1580	0	10.5	0.00645
## 1581	0	22.5	0.00645
## 1582	0	37.5	0.00645
## 1583	0	65.0	0.00645
## 1584	0	65.0	0.00645
## 1585	0	10.5	0.00645
## 1586	0	32.5	0.00645
## 1587	0	32.5	0.00645
## 1588	0	65.0	0.00645
## 1589	0	47.5	0.00645
## 1590	8	32.5	0.00645
## 1591	0	6.5	0.00645
## 1592	0	12.5	0.00645
## 1593	0	47.5	0.00645
## 1594	0	19.5	0.00645
## 1595	0	7.5	0.00645
## 1596	0	8.5	0.00645
## 1597	0	19.5	0.00645
## 1598	0	65.0	0.00645
## 1599	0	32.5	0.00645
## 1600	0	65.0	0.00645
## 1601	0	19.5	0.00645
## 1602	0	17.5	0.00645

## 1603	0	27.5	0.00645
## 1604	0	12.5	0.00645
## 1605	4	27.5	0.00645
## 1606	0	32.5	0.00645
## 1607	0	22.5	0.00645
## 1608	0	18.5	0.00645
## 1609	20	32.5	0.00645
## 1610	0	42.5	0.00645
## 1611	0	37.5	0.00645
## 1612	0	32.5	0.00645
## 1613	0	9.5	0.00645
## 1614	10	15.5	0.00645
## 1615	0	65.0	0.00645
## 1616	0	65.0	0.00645
## 1617	12	22.5	0.00645
## 1618	0	32.5	0.00645
## 1619	0	65.0	0.00645
## 1620	0	65.0	0.00645
## 1621	0	5.5	0.00645
## 1622	0	22.5	0.00645
## 1623	0	13.5	0.00645
## 1624	0	65.0	0.00645
## 1625	0	65.0	0.00645
## 1626	0	27.5	0.00645
## 1627	0	27.5	0.00645
## 1628	0	27.5	0.00645
## 1629	0	10.5	0.00645
## 1630	0	9.5	0.00645
## 1631	0	0.5	0.00645
## 1632	0	32.5	0.00645
## 1633	0	19.5	0.00645
## 1634	0	42.5	0.00645
## 1635	0	65.0	0.00645
## 1636	0	65.0	0.00645
## 1637	0	42.5	0.00645
## 1638	0	37.5	0.00645
## 1639	0	6.5	0.00645
## 1640	0	65.0	0.00645
## 1641	0	1.5	0.00645

## 1642	0	65.0	0.00645
## 1643	0	32.5	0.00645
## 1644	0	65.0	0.00645
## 1645	20	17.5	0.00645
## 1646	0	18.5	0.00645
## 1647	0	13.5	0.00645
## 1648	0	10.5	0.00645
## 1649	0	18.5	0.00645
## 1650	10	13.5	0.00645
## 1651	10	32.5	0.00645
## 1652	0	15.5	0.00645
## 1653	0	10.5	0.00645
## 1654	0	32.5	0.00645
## 1655	0	13.5	0.00645
## 1656	0	16.5	0.00645
## 1657	20	6.5	0.00645
## 1658	0	8.5	0.00645
## 1659	0	22.5	0.00645
## 1660	0	27.5	0.00645
## 1661	20	12.5	0.00645
## 1662	0	19.5	0.00645
## 1663	0	65.0	0.00645
## 1664	0	65.0	0.00645
## 1665	0	15.5	0.00645
## 1666	0	37.5	0.00645
## 1667	0	47.5	0.00645
## 1668	0	47.5	0.00645
## 1669	0	37.5	0.00645
## 1670	4	32.5	0.00645
## 1671	0	65.0	0.00645
## 1672	0	27.5	0.00645
## 1673	0	65.0	0.00645
## 1674	0	65.0	0.00645
## 1675	0	32.5	0.00645
## 1676	0	22.5	0.00645
## 1677	0	17.5	0.00645
## 1678	1	32.5	0.00645
## 1679	0	65.0	0.00645
## 1680	0	37.5	0.00645

## 1681	0	37.5	0.00645
## 1682	0	14.5	0.00645
## 1683	20	18.5	0.00645
## 1684	0	65.0	0.00645
## 1685	0	47.5	0.00645
## 1686	0	27.5	0.00645
## 1687	40	27.5	0.00645
## 1688	0	27.5	0.00645
## 1689	0	22.5	0.00645
## 1690	0	32.5	0.00645
## 1691	20	3.5	0.00645
## 1692	10	18.5	0.00645
## 1693	0	19.5	0.00645
## 1694	0	32.5	0.00645
## 1695	0	22.5	0.00645
## 1696	0	65.0	0.00645
## 1697	0	65.0	0.00645
## 1698	0	14.5	0.00645
## 1699	0	65.0	0.00645
## 1700	10	14.5	0.00645
## 1701	0	37.5	0.00645
## 1702	0	13.5	0.00645
## 1703	20	4.5	0.00645
## 1704	0	22.5	0.00645
## 1705	0	37.5	0.00645
## 1706	0	65.0	0.00645
## 1707	0	11.5	0.00645
## 1708	0	22.5	0.00645
## 1709	0	65.0	0.00645
## 1710	0	37.5	0.00645
## 1711	0	10.5	0.00645
## 1712	0	37.5	0.00645
## 1713	0	22.5	0.00645
## 1714	0	15.5	0.00645
## 1715	0	65.0	0.00645
## 1716	15	0.5	0.00645
## 1717	0	32.5	0.00645
## 1718	0	10.5	0.00645
## 1719	0	22.5	0.00645

## 1720	0	47.5	0.00645
## 1721	0	27.5	0.00645
## 1722	0	65.0	0.00645
## 1723	0	47.5	0.00645
## 1724	0	4.5	0.00645
## 1725	0	8.5	0.00645
## 1726	0	47.5	0.00645
## 1727	20	12.5	0.00645
## 1728	0	65.0	0.00645
## 1729	0	9.5	0.00645
## 1730	20	37.5	0.00645
## 1731	12	27.5	0.00645
## 1732	0	65.0	0.00645
## 1733	8	7.5	0.00645
## 1734	0	65.0	0.00645
## 1735	0	47.5	0.00645
## 1736	0	65.0	0.00645
## 1737	0	42.5	0.00645
## 1738	0	27.5	0.00645
## 1739	15	37.5	0.00645
## 1740	0	47.5	0.00645
## 1741	10	2.5	0.00645
## 1742	0	7.5	0.00645
## 1743	0	6.5	0.00645
## 1744	0	37.5	0.00645
## 1745	10	32.5	0.00645
## 1746	0	47.5	0.00645
## 1747	0	42.5	0.00645
## 1748	20	9.5	0.00645
## 1749	0	47.5	0.00645
## 1750	0	65.0	0.00645
## 1751	0	22.5	0.00645
## 1752	0	42.5	0.00645
## 1753	0	37.5	0.00645
## 1754	0	19.5	0.00645
## 1755	0	42.5	0.00645
## 1756	0	14.5	0.00645
## 1757	0	37.5	0.00645
## 1758	0	7.5	0.00645

## 1759	0	37.5	0.00645
## 1760	0	32.5	0.00645
## 1761	0	9.5	0.00645
## 1762	0	65.0	0.00645
## 1763	0	32.5	0.00645
## 1764	10	5.5	0.00645
## 1765	0	42.5	0.00645
## 1766	0	22.5	0.00645
## 1767	0	42.5	0.00645
## 1768	0	7.5	0.00645
## 1769	0	13.5	0.00645
## 1770	0	27.5	0.00645
## 1771	0	42.5	0.00645
## 1772	0	32.5	0.00645
## 1773	0	32.5	0.00645
## 1774	0	5.5	0.00645
## 1775	0	47.5	0.00645
## 1776	0	47.5	0.00645
## 1777	0	42.5	0.00645
## 1778	0	37.5	0.00645
## 1779	0	32.5	0.00645
## 1780	0	65.0	0.00645
## 1781	0	47.5	0.00645
## 1782	0	42.5	0.00645
## 1783	0	27.5	0.00645
## 1784	0	17.5	0.00645
## 1785	0	18.5	0.00645
## 1786	0	42.5	0.00645
## 1787	0	37.5	0.00645
## 1788	0	42.5	0.00645
## 1789	0	32.5	0.00645
## 1790	0	2.5	0.00645
## 1791	0	18.5	0.00645
## 1792	0	4.5	0.00645
## 1793	0	22.5	0.00645
## 1794	20	4.5	0.00645
## 1795	0	27.5	0.00645
## 1796	0	19.5	0.00645
## 1797	0	27.5	0.00645

## 1798	0	19.5	0.00645
## 1799	0	18.5	0.00645
## 1800	0	22.5	0.00645
## 1801	0	22.5	0.00645
## 1802	20	1.5	0.00645
## 1803	0	4.5	0.00645
## 1804	4	3.5	0.00645
## 1805	0	3.5	0.00645
## 1806	0	42.5	0.00645
## 1807	0	37.5	0.00645
## 1808	0	22.5	0.00645
## 1809	0	37.5	0.00645
## 1810	0	15.5	0.00645
## 1811	0	27.5	0.00645
## 1812	0	32.5	0.00645
## 1813	0	22.5	0.00645
## 1814	0	27.5	0.00645
## 1815	0	27.5	0.00645
## 1816	0	4.5	0.00645
## 1817	0	27.5	0.00645
## 1818	0	22.5	0.00645
## 1819	0	27.5	0.00645
## 1820	0	19.5	0.00645
## 1821	20	4.5	0.00645
## 1822	10	11.5	0.00645
## 1823	0	27.5	0.00645
## 1824	30	37.5	0.00645
## 1825	0	6.5	0.00645
## 1826	0	32.5	0.00645
## 1827	0	18.5	0.00645
## 1828	0	32.5	0.00645
## 1829	0	42.5	0.00645
## 1830	0	22.5	0.00645
## 1831	0	16.5	0.00645
## 1832	0	42.5	0.00645
## 1833	15	37.5	0.00645
## 1834	0	13.5	0.00645
## 1835	0	22.5	0.00645
## 1836	0	22.5	0.00645

## 1837	0	37.5	0.00645
## 1838	0	27.5	0.00645
## 1839	0	16.5	0.00645
## 1840	0	47.5	0.00645
## 1841	0	22.5	0.00645
## 1842	0	22.5	0.00645
## 1843	0	47.5	0.00645
## 1844	0	22.5	0.00645
## 1845	0	14.5	0.00645
## 1846	0	16.5	0.00645
## 1847	0	14.5	0.00645
## 1848	0	18.5	0.00645
## 1849	0	3.5	0.00645
## 1850	15	27.5	0.00645
## 1851	0	22.5	0.00645
## 1852	0	17.5	0.00645
## 1853	0	18.5	0.00645
## 1854	0	0.5	0.00645
## 1855	0	17.5	0.00645
## 1856	0	18.5	0.00645
## 1857	0	0.5	0.00645
## 1858	0	37.5	0.00645
## 1859	5	7.5	0.00645
## 1860	0	18.5	0.00645
## 1861	0	4.5	0.00645
## 1862	0	27.5	0.00645
## 1863	0	6.5	0.00645
## 1864	0	27.5	0.00645
## 1865	0	11.5	0.00645
## 1866	0	42.5	0.00645
## 1867	0	22.5	0.00645
## 1868	0	19.5	0.00645
## 1869	0	65.0	0.00645
## 1870	0	37.5	0.00645
## 1871	0	42.5	0.00645
## 1872	0	42.5	0.00645
## 1873	0	37.5	0.00645
## 1874	0	47.5	0.00645
## 1875	20	14.5	0.00645

## 1876	0	32.5	0.00645
## 1877	20	15.5	0.00645
## 1878	0	32.5	0.00645
## 1879	0	18.5	0.00645
## 1880	0	2.5	0.00645
## 1881	0	5.5	0.00645
## 1882	0	47.5	0.00645
## 1883	5	3.5	0.00645
## 1884	0	42.5	0.00645
## 1885	0	6.5	0.00645
## 1886	0	32.5	0.00645
## 1887	0	47.5	0.00645
## 1888	0	3.5	0.00645
## 1889	0	27.5	0.00645
## 1890	0	22.5	0.00645
## 1891	0	27.5	0.00645
## 1892	0	18.5	0.00645
## 1893	20	12.5	0.00645
## 1894	0	0.5	0.00645
## 1895	0	1.5	0.00645
## 1896	5	37.5	0.00645
## 1897	5	18.5	0.00645
## 1898	0	22.5	0.00645
## 1899	0	47.5	0.00645
## 1900	0	65.0	0.00645
## 1901	0	65.0	0.00645
## 1902	30	11.5	0.00645
## 1903	0	32.5	0.00645
## 1904	0	22.5	0.00645
## 1905	0	32.5	0.00645
## 1906	0	65.0	0.00645
## 1907	0	27.5	0.00645
## 1908	0	18.5	0.00645
## 1909	0	37.5	0.00645
## 1910	0	32.5	0.00645
## 1911	0	19.5	0.00645
## 1912	0	22.5	0.00645
## 1913	0	27.5	0.00645
## 1914	0	22.5	0.00645

##	1915	0	47.5	0.00645
##	1916	0	22.5	0.00645
##	1917	0	18.5	0.00645
##	1918	0	17.5	0.00645
##	1919	0	18.5	0.00645
##	1920	10	65.0	0.00645
##	1921	0	32.5	0.00645
##	1922	0	47.5	0.00645
##	1923	0	13.5	0.00645
##	1924	0	32.5	0.00645
##	1925	0	65.0	0.00645
##	1926	6	42.5	0.00645
##	1927	0	32.5	0.00645
##	1928	0	42.5	0.00645
##	1929	0	37.5	0.00645
##	1930	0	9.5	0.00645
##	1931	0	37.5	0.00645
##	1932	0	65.0	0.00645
##	1933	0	42.5	0.00645
##	1934	0	37.5	0.00645
##	1935	20	9.5	0.00645
##	1936	0	19.5	0.00645
##	1937	0	19.5	0.00645
##	1938	0	47.5	0.00645
##	1939	5	42.5	0.00645
##	1940	0	27.5	0.00645
##	1941	20	65.0	0.00645
##	1942	0	32.5	0.00645
##	1943	0	47.5	0.00645
##	1944	0	65.0	0.00645
##	1945	0	6.5	0.00645
##	1946	0	42.5	0.00645
##	1947	10	19.5	0.00645
##	1948	2	65.0	0.00645
##	1949	0	27.5	0.00645
##	1950	5	37.5	0.00645
##	1951	0	27.5	0.00645
##	1952	0	22.5	0.00645
##	1953	0	27.5	0.00645

##	1954	1	37.5	0.00645
##	1955	0	22.5	0.00645
##	1956	20	27.5	0.00645
##	1957	0	32.5	0.00645
##	1958	0	32.5	0.00645
##	1959	0	37.5	0.00645
##	1960	0	37.5	0.00645
##	1961	0	19.5	0.00645
##	1962	0	65.0	0.00645
##	1963	0	65.0	0.00645
##	1964	0	32.5	0.00645
##	1965	0	42.5	0.00645
##	1966	0	22.5	0.00645
##	1967	0	22.5	0.00645
##	1968	10	16.5	0.00645
##	1969	0	22.5	0.00645
##	1970	0	22.5	0.00645
##	1971	0	65.0	0.00645
##	1972	10	13.5	0.00645
##	1973	0	32.5	0.00645
##	1974	0	37.5	0.00645
##	1975	0	37.5	0.00645
##	1976	0	27.5	0.00645
##	1977	20	6.5	0.00645
##	1978	0	19.5	0.00645
##	1979	0	32.5	0.00645
##	1980	0	22.5	0.00645
##	1981	0	65.0	0.00645
##	1982	0	27.5	0.00645
##	1983	0	18.5	0.00645
##	1984	0	47.5	0.00645
##	1985	0	1.5	0.00645
##	1986	0	42.5	0.00645
##	1987	0	1.5	0.00645
##	1988	0	65.0	0.00645
##	1989	0	22.5	0.00645
##	1990	0	42.5	0.00645
##	1991	0	0.5	0.00645
##	1992	0	47.5	0.00645

##	1993	0	65.0	0.00645
##	1994	20	11.5	0.00645
##	1995	20	5.5	0.00645
##	1996	0	65.0	0.00645
##	1997	3	2.5	0.00645
##	1998	0	65.0	0.00645
##	1999	10	32.5	0.00645
##	2000	0	2.5	0.00645
##	2001	0	47.5	0.00645
##	2002	0	5.5	0.00645
##	2003	0	65.0	0.00645
##	2004	20	11.5	0.00645
##	2005	40	22.5	0.00645
##	2006	0	65.0	0.00645
##	2007	0	13.5	0.00645
##	2008	0	27.5	0.00645
##	2009	0	65.0	0.00645
##	2010	20	32.5	0.00645
##	2011	0	65.0	0.00645
##	2012	0	8.5	0.00645
##	2013	0	27.5	0.00645
##	2014	0	65.0	0.00645
##	2015	0	32.5	0.00645
##	2016	8	5.5	0.00645
##	2017	20	22.5	0.00645
##	2018	0	5.5	0.00645
##	2019	0	27.5	0.00645
##	2020	0	7.5	0.00645
##	2021	10	4.5	0.00645
##	2022	0	42.5	0.00645
##	2023	0	32.5	0.00645
##	2024	0	22.5	0.00645
##	2025	0	27.5	0.00645
##	2026	0	47.5	0.00645
##	2027	0	32.5	0.00645
##	2028	0	3.5	0.00645
##	2029	7	32.5	0.00645
##	2030	0	9.5	0.00645
##	2031	0	47.5	0.00645

##	2032	0	42.5	0.00645
##	2033	0	9.5	0.00645
##	2034	0	18.5	0.00645
##	2035	0	37.5	0.00645
##	2036	0	27.5	0.00645
##	2037	0	37.5	0.00645
##	2038	0	18.5	0.00645
##	2039	0	65.0	0.00645
##	2040	0	32.5	0.00645
##	2041	0	27.5	0.00645
##	2042	0	65.0	0.00645
##	2043	8	22.5	0.00645
##	2044	0	65.0	0.00645
##	2045	0	37.5	0.00645
##	2046	0	22.5	0.00645
##	2047	0	47.5	0.00645
##	2048	0	42.5	0.00645
##	2049	0	12.5	0.00645
##	2050	0	18.5	0.00645
##	2051	20	6.5	0.00645
##	2052	0	42.5	0.00645
##	2053	0	27.5	0.00645
##	2054	0	65.0	0.00645
##	2055	0	65.0	0.00645
##	2056	0	27.5	0.00645
##	2057	10	27.5	0.00645
##	2058	0	42.5	0.00645
##	2059	0	27.5	0.00645
##	2060	0	65.0	0.00645
##	2061	0	65.0	0.00645
##	2062	0	27.5	0.00645
##	2063	0	27.5	0.00645
##	2064	0	65.0	0.00645
##	2065	0	14.5	0.00645
##	2066	0	22.5	0.00645
##	2067	0	10.5	0.00645
##	2068	0	15.5	0.00645
##	2069	0	32.5	0.00645
##	2070	0	32.5	0.00645

##	2071	0	4.5	0.00645
##	2072	0	6.5	0.00645
##	2073	0	8.5	0.00645
##	2074	0	32.5	0.00645
##	2075	0	32.5	0.00645
##	2076	0	32.5	0.00645
##	2077	0	47.5	0.00645
##	2078	20	17.5	0.00645
##	2079	0	37.5	0.00645
##	2080	0	27.5	0.00645
##	2081	0	7.5	0.00645
##	2082	0	10.5	0.00645
##	2083	0	22.5	0.00645
##	2084	0	27.5	0.00645
##	2085	5	32.5	0.00645
##	2086	0	37.5	0.00645
##	2087	0	4.5	0.00645
##	2088	0	2.5	0.00645
##	2089	0	47.5	0.00645
##	2090	10	22.5	0.00645
##	2091	0	1.5	0.00645
##	2092	0	22.5	0.00645
##	2093	0	27.5	0.00645
##	2094	0	65.0	0.00645
##	2095	0	42.5	0.00645
##	2096	0	12.5	0.00645
##	2097	0	47.5	0.00645
##	2098	20	32.5	0.00645
##	2099	15	37.5	0.00645
##	2100	0	42.5	0.00645
##	2101	0	22.5	0.00645
##	2102	0	17.5	0.00645
##	2103	0	32.5	0.00645
##	2104	0	22.5	0.00645
##	2105	0	18.5	0.00645
##	2106	7	32.5	0.00645
##	2107	0	27.5	0.00645
##	2108	0	3.5	0.00645
##	2109	0	15.5	0.00645

##	2110	0	65.0	0.00645
##	2111	0	37.5	0.00645
##	2112	0	32.5	0.00645
##	2113	0	9.5	0.00645
##	2114	15	22.5	0.00645
##	2115	0	42.5	0.00645
##	2116	0	65.0	0.00645
##	2117	1	37.5	0.00645
##	2118	0	22.5	0.00645
##	2119	0	15.5	0.00645
##	2120	15	42.5	0.00645
##	2121	0	14.5	0.00645
##	2122	0	37.5	0.00645
##	2123	0	22.5	0.00645
##	2124	0	65.0	0.00645
##	2125	0	47.5	0.00645
##	2126	0	10.5	0.00645
##	2127	0	65.0	0.00645
##	2128	0	27.5	0.00645
##	2129	0	65.0	0.00645
##	2130	0	27.5	0.00645
##	2131	0	65.0	0.00645
##	2132	5	16.5	0.00645
##	2133	10	65.0	0.00645
##	2134	0	42.5	0.00645
##	2135	0	12.5	0.00645
##	2136	0	11.5	0.00645
##	2137	0	37.5	0.00645
##	2138	12	65.0	0.00645
##	2139	0	32.5	0.00645
##	2140	0	65.0	0.00645
##	2141	10	65.0	0.00645
##	2142	0	65.0	0.00645
##	2143	0	65.0	0.00645
##	2144	20	22.5	0.00645
##	2145	0	65.0	0.00645
##	2146	10	47.5	0.00645
##	2147	10	27.5	0.00645
##	2148	0	65.0	0.00645

##	2149	0	65.0	0.00645
##	2150	0	32.5	0.00645
##	2151	0	22.5	0.00645
##	2152	0	65.0	0.00645
##	2153	0	65.0	0.00645
##	2154	0	6.5	0.00645
##	2155	0	65.0	0.00645
##	2156	4	37.5	0.00645
##	2157	0	65.0	0.00645
##	2158	0	32.5	0.00645
##	2159	0	27.5	0.00645
##	2160	0	65.0	0.00645
##	2161	0	27.5	0.00645
##	2162	0	22.5	0.00645
##	2163	0	22.5	0.00645
##	2164	0	13.5	0.00645
##	2165	0	22.5	0.00645
##	2166	0	32.5	0.00645
##	2167	0	12.5	0.00645
##	2168	4	6.5	0.00645
##	2169	15	22.5	0.00645
##	2170	0	42.5	0.00645
##	2171	0	42.5	0.00645
##	2172	0	65.0	0.00645
##	2173	0	27.5	0.00645
##	2174	0	22.5	0.00645
##	2175	0	65.0	0.00645
##	2176	3	37.5	0.00645
##	2177	0	65.0	0.00645
##	2178	0	32.5	0.00645
##	2179	0	65.0	0.00645
##	2180	0	65.0	0.00645
##	2181	0	22.5	0.00645
##	2182	0	22.5	0.00645
##	2183	0	17.5	0.00645
##	2184	0	19.5	0.00645
##	2185	0	27.5	0.00645
##	2186	10	47.5	0.00645
##	2187	0	47.5	0.00645

##	2188	0	22.5	0.00645
##	2189	0	9.5	0.00645
##	2190	0	42.5	0.00645
##	2191	10	10.5	0.00645
##	2192	0	65.0	0.00645
##	2193	0	47.5	0.00645
##	2194	0	42.5	0.00645
##	2195	20	22.5	0.00645
##	2196	0	27.5	0.00645
##	2197	0	65.0	0.00645
##	2198	0	8.5	0.00645
##	2199	0	22.5	0.00645
##	2200	0	19.5	0.00645
##	2201	0	8.5	0.00645
##	2202	0	47.5	0.00645
##	2203	0	8.5	0.00645
##	2204	2	4.5	0.00645
##	2205	0	65.0	0.00645
##	2206	0	32.5	0.00645
##	2207	0	12.5	0.00645
##	2208	0	65.0	0.00645
##	2209	10	19.5	0.00645
##	2210	0	22.5	0.00645
##	2211	0	27.5	0.00645
##	2212	0	19.5	0.00645
##	2213	0	15.5	0.00645
##	2214	0	37.5	0.00645
##	2215	0	13.5	0.00645
##	2216	0	42.5	0.00645
##	2217	0	65.0	0.00645
##	2218	20	32.5	0.00645
##	2219	0	37.5	0.00645
##	2220	10	47.5	0.00645
##	2221	0	65.0	0.00645
##	2222	0	22.5	0.00645
##	2223	0	27.5	0.00645
##	2224	0	22.5	0.00645
##	2225	0	27.5	0.00645
##	2226	0	12.5	0.00645

##	2227	0	19.5	0.00645
##	2228	0	42.5	0.00645
##	2229	0	27.5	0.00645
##	2230	0	32.5	0.00645
##	2231	0	65.0	0.00645
##	2232	5	47.5	0.00645
##	2233	0	27.5	0.00645
##	2234	10	32.5	0.00645
##	2235	0	65.0	0.00645
##	2236	0	22.5	0.00645
##	2237	0	65.0	0.00645
##	2238	0	42.5	0.00645
##	2239	0	32.5	0.00645
##	2240	0	65.0	0.00645
##	2241	0	42.5	0.00645
##	2242	0	27.5	0.00645
##	2243	0	65.0	0.00645
##	2244	0	5.5	0.00645
##	2245	0	22.5	0.00645
##	2246	0	37.5	0.00645
##	2247	0	2.5	0.00645
##	2248	0	6.5	0.00645
##	2249	0	18.5	0.00645
##	2250	0	13.5	0.00645
##	2251	20	12.5	0.00645
##	2252	0	19.5	0.00645
##	2253	0	9.5	0.00645
##	2254	0	9.5	0.00645
##	2255	0	13.5	0.00645
##	2256	0	47.5	0.00645
##	2257	0	10.5	0.00645
##	2258	0	37.5	0.00645
##	2259	0	27.5	0.00645
##	2260	0	19.5	0.00645
##	2261	0	15.5	0.00645
##	2262	10	16.5	0.00645
##	2263	0	32.5	0.00645
##	2264	0	11.5	0.00645
##	2265	0	10.5	0.00645

##	2266	0	16.5	0.00645
##	2267	0	9.5	0.00645
##	2268	10	12.5	0.00645
##	2269	0	9.5	0.00645
##	2270	0	22.5	0.00645
##	2271	30	22.5	0.00645
##	2272	10	27.5	0.00645
##	2273	20	11.5	0.00645
##	2274	0	5.5	0.00645
##	2275	10	19.5	0.00645
##	2276	0	11.5	0.00645
##	2277	0	27.5	0.00645
##	2278	0	42.5	0.00645
##	2279	0	3.5	0.00645
##	2280	0	65.0	0.00645
##	2281	0	16.5	0.00645
##	2282	0	42.5	0.00645
##	2283	30	2.5	0.00645
##	2284	30	3.5	0.00645
##	2285	0	8.5	0.00645
##	2286	0	27.5	0.00645
##	2287	0	12.5	0.00645
##	2288	4	4.5	0.00645
##	2289	0	37.5	0.00645
##	2290	0	32.5	0.00645
##	2291	0	22.5	0.00645
##	2292	0	37.5	0.00645
##	2293	0	19.5	0.00645
##	2294	10	9.5	0.00645
##	2295	3	13.5	0.00645
##	2296	0	2.5	0.00645
##	2297	0	0.5	0.00645
##	2298	0	10.5	0.00645
##	2299	0	47.5	0.00645
##	2300	0	42.5	0.00645
##	2301	20	3.5	0.00645
##	2302	0	27.5	0.00645
##	2303	0	19.5	0.00645
##	2304	0	37.5	0.00645

##	2305	3	7.5	0.00645
##	2306	20	22.5	0.00645
##	2307	7	22.5	0.00645
##	2308	0	47.5	0.00645
##	2309	20	27.5	0.00645
##	2310	0	4.5	0.00645
##	2311	0	18.5	0.00645
##	2312	0	32.5	0.00645
##	2313	0	37.5	0.00645
##	2314	2	6.5	0.00645
##	2315	0	42.5	0.00645
##	2316	0	47.5	0.00645
##	2317	10	14.5	0.00645
##	2318	0	4.5	0.00645
##	2319	0	65.0	0.00645
##	2320	20	12.5	0.00645
##	2321	0	37.5	0.00645
##	2322	0	32.5	0.00645
##	2323	0	6.5	0.00645
##	2324	5	11.5	0.00645
##	2325	0	14.5	0.00645
##	2326	0	27.5	0.00645
##	2327	0	32.5	0.00645
##	2328	0	15.5	0.00645
##	2329	10	22.5	0.00645
##	2330	20	22.5	0.00645
##	2331	0	65.0	0.00645
##	2332	0	47.5	0.00645
##	2333	0	17.5	0.00645
##	2334	20	27.5	0.00645
##	2335	0	32.5	0.00645
##	2336	0	65.0	0.00645
##	2337	0	65.0	0.00645
##	2338	0	65.0	0.00645
##	2339	0	32.5	0.00645
##	2340	0	18.5	0.00645
##	2341	0	42.5	0.00645
##	2342	0	7.5	0.00645
##	2343	5	37.5	0.00645

##	2344	0	37.5	0.00645
##	2345	0	1.5	0.00645
##	2346	7	17.5	0.00645
##	2347	0	65.0	0.00645
##	2348	0	3.5	0.00645
##	2349	0	4.5	0.00645
##	2350	15	22.5	0.00645
##	2351	0	22.5	0.00645
##	2352	0	3.5	0.00645
##	2353	0	17.5	0.00645
##	2354	0	16.5	0.00645
##	2355	0	10.5	0.00645
##	2356	0	22.5	0.00645
##	2357	4	3.5	0.00645
##	2358	10	8.5	0.00645
##	2359	0	1.5	0.00645
##	2360	0	65.0	0.00645
##	2361	0	42.5	0.00645
##	2362	0	22.5	0.00645
##	2363	15	17.5	0.00645
##	2364	15	18.5	0.00645
##	2365	40	5.5	0.00645
##	2366	0	13.5	0.00645
##	2367	0	17.5	0.00645
##	2368	10	19.5	0.00645
##	2369	0	65.0	0.00645
##	2370	0	11.5	0.00645
##	2371	0	65.0	0.00645
##	2372	0	2.5	0.00645
##	2373	0	65.0	0.00645
##	2374	20	10.5	0.00645
##	2375	0	42.5	0.00645
##	2376	0	19.5	0.00645
##	2377	0	5.5	0.00645
##	2378	0	0.5	0.00645
##	2379	0	65.0	0.00645
##	2380	0	47.5	0.00645
##	2381	0	14.5	0.00645
##	2382	0	27.5	0.00645

##	2383	20	22.5	0.00645
##	2384	20	19.5	0.00645
##	2385	0	15.5	0.00645
##	2386	10	0.5	0.00645
##	2387	0	47.5	0.00645
##	2388	0	22.5	0.00645
##	2389	0	15.5	0.00645
##	2390	10	17.5	0.00645
##	2391	0	47.5	0.00645
##	2392	0	15.5	0.00645
##	2393	0	18.5	0.00645
##	2394	10	2.5	0.00645
##	2395	0	18.5	0.00645
##	2396	0	27.5	0.00645
##	2397	0	32.5	0.00645
##	2398	15	19.5	0.00645
##	2399	15	32.5	0.00645
##	2400	0	22.5	0.00645
##	2401	0	19.5	0.00645
##	2402	0	6.5	0.00645
##	2403	0	27.5	0.00645
##	2404	0	10.5	0.00645
##	2405	0	47.5	0.00645
##	2406	0	19.5	0.00645
##	2407	0	22.5	0.00645
##	2408	20	15.5	0.00645
##	2409	0	8.5	0.00645
##	2410	5	19.5	0.00645
##	2411	0	1.5	0.00645
##	2412	6	14.5	0.00645
##	2413	0	27.5	0.00645
##	2414	20	5.5	0.00645
##	2415	0	5.5	0.00645
##	2416	0	14.5	0.00645
##	2417	0	32.5	0.00645
##	2418	0	22.5	0.00645
##	2419	0	22.5	0.00645
##	2420	0	27.5	0.00645
##	2421	10	27.5	0.00645

##	2422	0	13.5	0.00645
##	2423	0	22.5	0.00645
##	2424	0	22.5	0.00645
##	2425	0	65.0	0.00645
##	2426	0	19.5	0.00645
##	2427	0	37.5	0.00645
##	2428	0	32.5	0.00645
##	2429	0	11.5	0.00645
##	2430	0	27.5	0.00645
##	2431	20	17.5	0.00645
##	2432	0	37.5	0.00645
##	2433	0	10.5	0.00645
##	2434	0	32.5	0.00645
##	2435	0	37.5	0.00645
##	2436	0	32.5	0.00645
##	2437	0	37.5	0.00645
##	2438	10	2.5	0.00645
##	2439	0	15.5	0.00645
##	2440	0	42.5	0.00645
##	2441	0	22.5	0.00645
##	2442	0	22.5	0.00645
##	2443	0	2.5	0.00645
##	2444	0	32.5	0.00645
##	2445	0	32.5	0.00645
##	2446	0	18.5	0.00645
##	2447	0	27.5	0.00645
##	2448	0	2.5	0.00645
##	2449	20	6.5	0.00645
##	2450	0	37.5	0.00645
##	2451	0	65.0	0.00645
##	2452	0	47.5	0.00645
##	2453	0	42.5	0.00645
##	2454	0	27.5	0.00645
##	2455	0	32.5	0.00645
##	2456	20	42.5	0.00645
##	2457	0	17.5	0.00645
##	2458	0	42.5	0.00645
##	2459	10	19.5	0.00645
##	2460	0	32.5	0.00645

##	2461	0	42.5	0.00645
##	2462	20	14.5	0.00645
##	2463	0	15.5	0.00645
##	2464	0	32.5	0.00645
##	2465	0	37.5	0.00645
##	2466	0	6.5	0.00645
##	2467	0	32.5	0.00645
##	2468	0	42.5	0.00645
##	2469	20	27.5	0.00645
##	2470	0	65.0	0.00645
##	2471	0	65.0	0.00645
##	2472	0	27.5	0.00645
##	2473	0	32.5	0.00645
##	2474	0	32.5	0.00645
##	2475	0	37.5	0.00645
##	2476	10	18.5	0.00645
##	2477	0	22.5	0.00645
##	2478	6	42.5	0.00645
##	2479	0	27.5	0.00645
##	2480	0	37.5	0.00645
##	2481	0	11.5	0.00645
##	2482	0	18.5	0.00645
##	2483	0	3.5	0.00645
##	2484	0	18.5	0.00645
##	2485	0	13.5	0.00645
##	2486	0	22.5	0.00645
##	2487	0	65.0	0.00645
##	2488	0	22.5	0.00645
##	2489	0	16.5	0.00645
##	2490	0	27.5	0.00645
##	2491	0	42.5	0.00645
##	2492	2	3.5	0.00645
##	2493	0	22.5	0.00645
##	2494	0	19.5	0.00645
##	2495	0	12.5	0.00645
##	2496	20	9.5	0.00645
##	2497	10	4.5	0.00645
##	2498	0	27.5	0.00645
##	2499	0	47.5	0.00645

##	2500	0	22.5	0.00645
##	2501	0	9.5	0.00645
##	2502	0	65.0	0.00645
##	2503	0	7.5	0.00645
##	2504	0	65.0	0.00645
##	2505	0	4.5	0.00645
##	2506	0	27.5	0.00645
##	2507	0	19.5	0.00645
##	2508	0	6.5	0.00645
##	2509	0	16.5	0.00645
##	2510	0	65.0	0.00645
##	2511	0	22.5	0.00645
##	2512	0	2.5	0.00645
##	2513	0	22.5	0.00645
##	2514	0	32.5	0.00645
##	2515	0	9.5	0.00645
##	2516	0	16.5	0.00645
##	2517	0	32.5	0.00645
##	2518	0	17.5	0.00645
##	2519	0	6.5	0.00645
##	2520	0	65.0	0.00645
##	2521	0	37.5	0.00645
##	2522	4	17.5	0.00645
##	2523	0	19.5	0.00645
##	2524	0	32.5	0.00645
##	2525	6	42.5	0.00645
##	2526	0	32.5	0.00645
##	2527	0	18.5	0.00645
##	2528	10	22.5	0.00645
##	2529	3	22.5	0.00645
##	2530	0	32.5	0.00645
##	2531	0	18.5	0.00645
##	2532	0	12.5	0.00645
##	2533	0	9.5	0.00645
##	2534	0	22.5	0.00645
##	2535	0	27.5	0.00645
##	2536	0	0.5	0.00645
##	2537	0	22.5	0.00645
##	2538	0	6.5	0.00645

##	2539	0	65.0	0.00645
##	2540	0	19.5	0.00645
##	2541	0	27.5	0.00645
##	2542	0	12.5	0.00645
##	2543	0	42.5	0.00645
##	2544	0	13.5	0.00645
##	2545	0	65.0	0.00645
##	2546	0	2.5	0.00645
##	2547	0	65.0	0.00645
##	2548	0	9.5	0.00645
##	2549	0	37.5	0.00645
##	2550	0	19.5	0.00645
##	2551	0	17.5	0.00645
##	2552	0	9.5	0.00645
##	2553	0	65.0	0.00645
##	2554	0	65.0	0.00645
##	2555	5	14.5	0.00645
##	2556	5	32.5	0.00645
##	2557	0	17.5	0.00645
##	2558	0	2.5	0.00645
##	2559	0	18.5	0.00645
##	2560	0	22.5	0.00645
##	2561	20	65.0	0.00645
##	2562	0	65.0	0.00645
##	2563	6	22.5	0.00645
##	2564	0	0.5	0.00645
##	2565	0	22.5	0.00645
##	2566	0	47.5	0.00645
##	2567	0	65.0	0.00645
##	2568	0	65.0	0.00645
##	2569	0	32.5	0.00645
##	2570	0	65.0	0.00645
##	2571	0	0.5	0.00645
##	2572	0	65.0	0.00645
##	2573	0	42.5	0.00645
##	2574	0	13.5	0.00645
##	2575	0	22.5	0.00645
##	2576	0	65.0	0.00645
##	2577	0	16.5	0.00645

##	2578	20	9.5	0.00645
##	2579	15	19.5	0.00645
##	2580	0	11.5	0.00645
##	2581	0	8.5	0.00645
##	2582	0	42.5	0.00645
##	2583	0	27.5	0.00645
##	2584	0	14.5	0.00645
##	2585	8	4.5	0.00645
##	2586	0	15.5	0.00645
##	2587	0	27.5	0.00645
##	2588	0	65.0	0.00645
##	2589	0	16.5	0.00645
##	2590	0	37.5	0.00645
##	2591	0	65.0	0.00645
##	2592	0	37.5	0.00645
##	2593	0	7.5	0.00645
##	2594	0	22.5	0.00645
##	2595	0	47.5	0.00645
##	2596	0	32.5	0.00645
##	2597	5	4.5	0.00645
##	2598	0	32.5	0.00645
##	2599	0	15.5	0.00645
##	2600	10	1.5	0.00645
##	2601	0	65.0	0.00645
##	2602	0	37.5	0.00645
##	2603	0	12.5	0.00645
##	2604	0	16.5	0.00645
##	2605	0	47.5	0.00645
##	2606	0	0.5	0.00645
##	2607	0	18.5	0.00645
##	2608	0	32.5	0.00645
##	2609	0	13.5	0.00645
##	2610	0	2.5	0.00645
##	2611	0	47.5	0.00645
##	2612	0	32.5	0.00645
##	2613	0	22.5	0.00645
##	2614	0	65.0	0.00645
##	2615	0	9.5	0.00645
##	2616	0	65.0	0.00645

##	2617	15	8.5	0.00645
##	2618	0	9.5	0.00645
##	2619	0	22.5	0.00645
##	2620	0	22.5	0.00645
##	2621	12	65.0	0.00645
##	2622	0	22.5	0.00645
##	2623	10	22.5	0.00645
##	2624	0	10.5	0.00645
##	2625	0	2.5	0.00645
##	2626	0	9.5	0.00645
##	2627	0	4.5	0.00645
##	2628	46	0.5	0.00645
##	2629	0	32.5	0.00645
##	2630	0	47.5	0.00645
##	2631	0	5.5	0.00645
##	2632	0	17.5	0.00645
##	2633	20	10.5	0.00645
##	2634	0	12.5	0.00645
##	2635	0	9.5	0.00645
##	2636	5	22.5	0.00645
##	2637	0	32.5	0.00645
##	2638	0	22.5	0.00645
##	2639	0	8.5	0.00645
##	2640	0	1.5	0.00645
##	2641	0	32.5	0.00645
##	2642	0	15.5	0.00645
##	2643	0	37.5	0.00645
##	2644	0	47.5	0.00645
##	2645	0	65.0	0.00645
##	2646	0	27.5	0.00645
##	2647	0	27.5	0.00645
##	2648	0	65.0	0.00645
##	2649	0	32.5	0.00645
##	2650	0	7.5	0.00645
##	2651	0	4.5	0.00645
##	2652	40	22.5	0.00645
##	2653	0	8.5	0.00645
##	2654	0	6.5	0.00645
##	2655	0	27.5	0.00645

##	2656	0	18.5	0.00645
##	2657	0	27.5	0.00645
##	2658	0	27.5	0.00645
##	2659	0	22.5	0.00645
##	2660	0	27.5	0.00645
##	2661	0	19.5	0.00645
##	2662	0	27.5	0.00645
##	2663	0	37.5	0.00645
##	2664	20	6.5	0.00645
##	2665	0	32.5	0.00645
##	2666	0	15.5	0.00645
##	2667	0	27.5	0.00645
##	2668	12	42.5	0.00645
##	2669	0	32.5	0.00645
##	2670	0	47.5	0.00645
##	2671	0	16.5	0.00645
##	2672	0	42.5	0.00645
##	2673	0	5.5	0.00645
##	2674	0	22.5	0.00645
##	2675	0	65.0	0.00645
##	2676	10	27.5	0.00645
##	2677	0	42.5	0.00645
##	2678	0	32.5	0.00645
##	2679	20	4.5	0.00645
##	2680	5	12.5	0.00645
##	2681	0	65.0	0.00645
##	2682	0	65.0	0.00645
##	2683	0	22.5	0.00645
##	2684	0	32.5	0.00645
##	2685	0	65.0	0.00645
##	2686	0	65.0	0.00645
##	2687	0	8.5	0.00645
##	2688	0	47.5	0.00645
##	2689	0	3.5	0.00645
##	2690	0	22.5	0.00645
##	2691	0	65.0	0.00645
##	2692	50	27.5	0.00645
##	2693	0	65.0	0.00645
##	2694	0	10.5	0.00645

##	2695	0	65.0	0.00645
##	2696	0	19.5	0.00645
##	2697	0	22.5	0.00645
##	2698	0	18.5	0.00645
##	2699	0	19.5	0.00645
##	2700	0	22.5	0.00645
##	2701	0	16.5	0.00645
##	2702	0	65.0	0.00645
##	2703	0	65.0	0.00645
##	2704	20	22.5	0.00645
##	2705	0	32.5	0.00645
##	2706	0	42.5	0.00645
##	2707	0	6.5	0.00645
##	2708	0	27.5	0.00645
##	2709	0	14.5	0.00645
##	2710	0	32.5	0.00645
##	2711	5	65.0	0.00645
##	2712	0	15.5	0.00645
##	2713	15	22.5	0.00645
##	2714	0	32.5	0.00645
##	2715	0	6.5	0.00645
##	2716	0	15.5	0.00645
##	2717	0	27.5	0.00645
##	2718	0	17.5	0.00645
##	2719	0	37.5	0.00645
##	2720	10	22.5	0.00645
##	2721	9	4.5	0.00645
##	2722	0	18.5	0.00645
##	2723	0	22.5	0.00645
##	2724	0	37.5	0.00645
##	2725	15	5.5	0.00645
##	2726	0	16.5	0.00645
##	2727	0	17.5	0.00645
##	2728	0	6.5	0.00645
##	2729	0	6.5	0.00645
##	2730	0	32.5	0.00645
##	2731	0	22.5	0.00645
##	2732	0	15.5	0.00645
##	2733	10	6.5	0.00645

## 2734	0	27.5	0.00645
## 2735	0	42.5	0.00645
## 2736	15	9.5	0.00645
## 2737	20	32.5	0.00645
## 2738	0	22.5	0.00645
## 2739	0	4.5	0.00645
## 2740	0	27.5	0.00645
## 2741	0	37.5	0.00645
## 2742	0	8.5	0.00645
## 2743	0	27.5	0.00645
## 2744	0	47.5	0.00645
## 2745	0	32.5	0.00645
## 2746	0	27.5	0.00645
## 2747	0	6.5	0.00645
## 2748	3	12.5	0.00645
## 2749	0	32.5	0.00645
## 2750	10	5.5	0.00645
## 2751	0	22.5	0.00645
## 2752	0	10.5	0.00645
## 2753	0	32.5	0.00645
## 2754	0	32.5	0.00645
## 2755	0	27.5	0.00645
## 2756	15	12.5	0.00645
## 2757	0	8.5	0.00645
## 2758	0	42.5	0.00645
## 2759	0	4.5	0.00645
## 2760	0	37.5	0.00645
## 2761	0	18.5	0.00645
## 2762	0	42.5	0.00645
## 2763	0	42.5	0.00645
## 2764	20	17.5	0.00645
## 2765	0	47.5	0.00645
## 2766	0	22.5	0.00645
## 2767	0	15.5	0.00645
## 2768	0	1.5	0.00645
## 2769	0	5.5	0.00645
## 2770	0	12.5	0.00645
## 2771	0	22.5	0.00645
## 2772	0	27.5	0.00645

```
## 2773    0    5.5 0.00645
## 2774    0   65.0 0.00645
## 2775    0   27.5 0.00645
## 2776    0   37.5 0.00645
```

Note: Calculating standard errors for nonlinear functions of multiple parameters ($\hat{\beta}, \bar{x}, \bar{y}$) is a little tricky, and I won't address it. If you're interested a couple of methods include the delta method (which is more theoretically-grounded and used by `marginaleffects`) and the bootstrap.

Interpreting Effects for Transformed Variables

Choice of functional form should be guided by theory as well as the data.

Logs

1. Log-linear form: $\ln(y) = \beta_0 + \beta_1 x_1 + controls + u$

$$\beta_1 = \frac{\delta \ln(y)}{\delta x_1} = \frac{\delta y / y}{\delta x_1} = \frac{\% \Delta y}{\Delta x_1}$$

2. Linear-log form: $y = \beta_0 + \beta_1 \ln(x_1) + controls + u$

$$\beta_1 = \frac{\delta y}{\delta \ln(x_1)} = \frac{\delta y}{\delta x_1 / x_1} = \frac{\Delta y}{\% \Delta x_1}$$

3. Double-log form: $\ln(y) = \beta_0 + \beta_1 \ln(x_1) + controls + u$

$$\beta_1 = \frac{\delta \ln(y)}{\delta \ln(x_1)} = \frac{\delta y / y}{\delta x_1 / x_1} = \frac{\% \Delta y}{\% \Delta x_1} = E_{yx}$$

Family Income and Birthweight

Estimate the birth weight model using: 1. The log of *birthweight* and levels of the explanatory variables (`bwght.lm7`) 2. The log of *family income* and levels of birthweight and other variables (`bwght.lm8`) 3. The logs of birthweight *and* family income (`bwght.lm9`)

Output the results using a text `stargazer` table.

```
bwght.lm7 <- lm(log(bwght) ~ cigs + faminc, data = bwght)
bwght.lm8 <- lm(bwght ~ cigs + log(faminc), data = bwght)
bwght.lm9 <- lm(log(bwght) ~ cigs + log(faminc), data = bwght)
stargazer(bwght.lm7, bwght.lm8, bwght.lm9, type = 'text')
```

```

##
## =====
##                               Dependent variable:
##                               -----
##                               log(bwght)   bwght   log(bwght)
##                               (1)         (2)     (3)
## -----
## cigs                          -0.004***   -0.467***   -0.004***
##                               (0.001)     (0.091)     (0.001)
##
## faminc                        0.001***
##                               (0.0003)
##
## log(faminc)                   1.851***   0.016***
##                               (0.595)     (0.006)
##
## Constant                      4.744***   113.991***   4.719***
##                               (0.010)     (1.944)     (0.018)
## -----
## Observations                  1,388       1,388       1,388
## R2                            0.026       0.030       0.026
## Adjusted R2                   0.025       0.028       0.024
## Residual Std. Error (df = 1385) 0.188       20.066       0.188
## F Statistic (df = 2; 1385)      18.822***   21.058***   18.310***
## =====
## Note:                         *p<0.1; **p<0.05; ***p<0.01

```

Quadratics

The coefficients themselves do not reveal the effect of x_j on y because that effect depends on the value of x_j . Some calculus shows that

$$\frac{\delta y}{\delta x_j} = \beta_1 + 2\beta_2 x_1$$

This also means that there is a value of x that maximizes or minimizes the predicted value of y .

Choice of functional form should be guided by theory as well as the data.

Family Income and Birthweight

Estimate the birth weight model using a quadratic of family income (`bwght.lmX`) and summarize the results with `summary()`. Calculate the effect of a \$1,000/year increase in family income for a family with a median income level (the units for `faminc` are in \$1,000/year).

```
bwght.lmX <- lm(bwghtlbs ~ cigs + faminc + I(faminc^2), data = bwght)
summary(bwght.lmX)
```

```
##
## Call:
## lm(formula = bwghtlbs ~ cigs + faminc + I(faminc^2), data = bwght)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.0419 -0.7277  0.0473  0.8341  9.3260
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  7.1695876  0.1010221  70.970  < 2e-16 ***
## cigs         -0.0284928  0.0057244  -4.977  7.25e-07 ***
## faminc        0.0175664  0.0066598   2.638  0.00844 **
## I(faminc^2) -0.0001687  0.0000918  -1.837  0.06639 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.253 on 1384 degrees of freedom
## Multiple R-squared:  0.03217,    Adjusted R-squared:  0.03007
## F-statistic: 15.33 on 3 and 1384 DF,  p-value: 8.128e-10
```