Replication 8 - Matching

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1. What is treatment? What is control? What is the outcome?

The treatment is controling a community radio, the control is to own none. The outcome is the vote share in the next election and the probability of winning.

2. Why do Boas and Hidalgo not use an experiment or natural experiment to estimate the effect of possessing a radio licence?

Because the treatment, the radio license, isn't randomly assigned. The treatment is very likely to be part of the incumbent advantage, so their potential outcomes (winning and vote share) are already higher.

3. Conduct and interpret a basic linear regression of the outcome on treatment with no controls.

In this regression, we can say that owning an radio station increases the vote share in 0.45% in the next election.

Table 1:		
	Dependent variable:	
	pctVV	
treat	0.453***	
Constant	(0.137) 2.296^{***}	
Constant	(0.063)	
Observations	1,455	
R^2	0.007	
Adjusted R ²	0.007	
Residual Std. Error	2.139 (df = 1453)	
F Statistic	$10.964^{***} (df = 1; 1453)$	
Note:	*p<0.1; **p<0.05; ***p<0.01	

4. One potential confounding variable is gender (this could affect the chances of an application being approved if there is bias in the Ministry, and the candidate's vote share if there is bias among voters). Is there balance across control and treatment groups on the male variable?

There are more males in the treated group - this difference is statistically significant at 5% level. This means our results in the basic linear regression is biased.

<sup>##
##</sup> Welch Two Sample t-test

```
##
## data: treat by male
## t = -2.4175, df = 209.31, p-value = 0.01648
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.13483909 -0.01370713
## sample estimates:
## mean in group 0 mean in group 1
## 0.1474359 0.2217090
```

5. One way of controlling for gender is to add it as a control variable to your regression in Q3.Interpret the result.

When adding the gender variable, the treatment effect is slightly reduced, but there still might be bias in other variables.

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	$Dependent\ variable:$
	pctVV
treat	0.446***
	(0.137)
male	0.175
	(0.182)
Constant	2.141***
	(0.172)
Observations	1,455
\mathbb{R}^2	0.008
Adjusted R ²	0.007
Residual Std. Error	2.139 (df = 1452)
F Statistic	$5.945^{***} (df = 2; 1452)$
Note:	*p<0.1; **p<0.05; ***p<0

6. An alternative approach is to use matching. Let's try to do one-to-one exact matching on gender manually. There are 311 treated units but 1144 control units in your data, so one-to-one matching means throwing away 833 control units.

(a) Split your data into four differents datasets: treated males, treated females, control males and control females;

```
t_male <- data %>%
  filter(treat == 1 & male == 1)

c_male <- data %>%
  filter(treat == 0 & male == 1)

t_female <- data %>%
  filter(treat == 1 & male == 0)

c_female <- data %>%
  filter(treat == 0 & male == 0)
```

(b) How many treated males do you have? Reduce your dataset of control males so you have only the same

number as the number of treated males - since they are exactly matched on gender it doesn't matter which you pick so choose which ones to keep/drop randomly;

```
c_male <- c_male %>%
sample_n(size = nrow(t_male))
```

(c) Do the same for control females - reduce the number of control females to the same as the number of treated females;

```
c_female <- c_female %>%
sample_n(size = nrow(t_female))
```

(d) Join your four datasets back together to make one dataset (this will be smaller than the original datasetas we threw some data away);

```
datamatch <- rbind(c_female,t_female,c_male,t_male)</pre>
```

(e) Check for balance in gender on the new dataset - it should be perfectly balanced, right?

7. Using the matched dataset from Q6, conduct two analyses of the difference in outcomes between treated and control groups. One using a difference-in-means t-test and one using a simple linear regression. Interpret the results.

The t-test shows a difference between treated and control groups in the outcome variable significant at 5% level. The regressions tells the same story, with a positive and significant effect of 0.405% in the vote share for the candidates controlling a radio community - this coefficient, however, is smaller than the one estimated with the full data, meaning that some of the previous effect was due to inbalance on gender.

```
##
## Welch Two Sample t-test
##
## data: pctVV by treat
## t = -2.4208, df = 598.85, p-value = 0.01578
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.74801664 -0.07793365
## sample estimates:
## mean in group 0 mean in group 1
## 2.335829 2.748805
```

Table 3:

	Dependent variable:
	pctVV
treat	0.413**
	(0.171)
Constant	2.336***
	(0.121)
Observations	622
\mathbb{R}^2	0.009
Adjusted R ²	0.008
Residual Std. Error	2.127 (df = 620)
F Statistic	$5.860^{**} (df = 1; 620)$
Note:	*p<0.1: **p<0.05: ***p<

p<0.1; **p<0.05; ***p<0.01

8. To match on continuous or multiple variables it's easier to use matchit. Return to your original full dataset and, using nearest neighbour matching, match on the size of the electorate (log.valid.votes). How many units are matched? Why this number? Conduct a simple balance t-test on the size of the electorate for the full dataset and for your matched dataset (you can recover it withmatch.data(output_of_matchit)). How does balance change after matching?

The matching using nearest neighbour method got us 622 units matched, removing 833 that couldn't be matched. This number was limited to our treated units in the full dataset - each treated variable is matched to a single control unit. The t.test for the full dataset shows we had an imbalance in the total votes variable significant at 5% level. The same test with the trimmed data now shows treated and control groups are balanced.

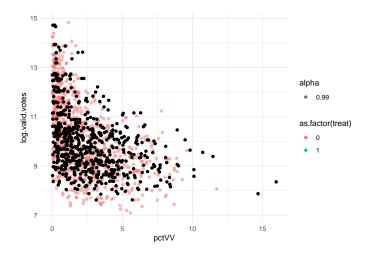
```
match1 <- matchit(treat ~ log.valid.votes, data = data, method = "nearest")</pre>
datamatchit1 <- match.data(match1)</pre>
```

```
##
##
  Welch Two Sample t-test
##
## data: log.valid.votes by treat
## t = 2.1829, df = 558.4, p-value = 0.02946
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 0.01860591 0.35279203
## sample estimates:
## mean in group 0 mean in group 1
         10.11921
                           9.93351
##
  Welch Two Sample t-test
##
## data: log.valid.votes by treat
## t = 0.0072001, df = 620, p-value = 0.9943
\#\# alternative hypothesis: true difference in means is not equal to 0
```

```
## 95 percent confidence interval:
## -0.2013492  0.2028311
## sample estimates:
## mean in group 0 mean in group 1
## 9.934251  9.933510
```

9. Let's see which units were dropped by our matching method in Q8. For the full (unmatched) dataset, create a graph of the size of the electorate against the outcome variable. Colour the points according to treatment status. Make this layer semi-transparent if you can. Finally,add another layer to your graph showing the same variables for the matched data. What does this graph tell you about which units were matched?

The graph shows us that all the treated units were matched, including the ones with higher values of the outcome variable without any nearby control units.



10. Using the matched dataset from Q8, conduct two analyses of the difference in outcomes between treated and control groups. One using a difference-in-means t-test and one using a simple linear regression. Interpret the results.

With the full dataset, we would conclude that the treatment is significant at 1% level, meaning that candidates with a radio community have, on average, 2.74 in vote share agains 2.29 of the candidates without a radio station. However, this effect disappears with the matched data.

```
##
## Welch Two Sample t-test
##
## data: pctVV by treat
## t = -3.1184, df = 455.69, p-value = 0.001934
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.7383611 -0.1674980
## sample estimates:
## mean in group 0 mean in group 1
## 2.295875 2.748805
```

```
##
## Welch Two Sample t-test
##
## data: pctVV by treat
## t = -1.2694, df = 617.61, p-value = 0.2048
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.5833037 0.1252724
## sample estimates:
## mean in group 0 mean in group 1
## 2.519789 2.748805
```

11. Now let's include all of the matching variables that Boas and Hidalgo use, and use nearest neighbour matching in matchit to construct a matched dataset. Use the list of matching variables provided below to conduct nearest neighbour matching."occBlue.collar, "occEducation, "occGovernment, "occMedia, "occNone, "occOther, "occPolitician, "oc-cWhite.collar, "lat, "long, "ran.prior, "incumbent, "log.valid.votes, "party.prior.pctVV, "prior.pctVV,"elec.year, "match.partyPCB, "match.partyPC.do.B, "match.partyPDT, "match.partyPFL,"match.party" match.partyPMDB, "match.partyPMN, "match.partyPP, "match.partyPPS,"match.partyP "match.partyPSC, "match.partyPSDB, "match.partyPSDC, "match.partyPSL,"match.partyP "match.partyPTB, "match.partyPV, "uf.rs, "uf.sp, "yob, "eduMore.than.Primary..Less.than. "log.total.assets, "pt_pres_1998, "psdb_2000, "hdi_2000, "income_2000,"log.num.apps

```
match2 <- matchit(treat ~ occBlue.collar+ occEducation+</pre>
                    occGovernment+ occMedia+ occNone+ occOther+
                    occPolitician+ occWhite.collar+ lat+ long+
                    ran.prior+ incumbent+ log.valid.votes+
                    party.prior.pctVV+ prior.pctVV+ elec.year+
                    match.partyPCB+
                                    match.partyPC.do.B+
                    match.partyPDT+
                                     match.partyPFL+match.partyPL+
                    match.partyPMDB+ match.partyPMN+ match.partyPP+
                    match.partyPPS+match.partyPSB+ match.partyPSC+
                    match.partyPSDB+ match.partyPSDC+ match.partyPSL+
                    match.partyPT+ match.partyPTB+ match.partyPV+
                    uf.rs+ uf.sp+ yob+
                    eduMore.than.Primary..Less.than.Superior+
                    eduSome.Superior.or.More+ log.total.assets+
                    pt_pres_1998+ psdb_2000+ hdi_2000+
                    income_2000+log.num.apps, data = data, method = "nearest")
datamatchit2 <- match.data(match2)</pre>
```

12. Using your matched dataset from Q11, conduct a simple linear regression of the outcome on treatment. Interpret the results and compare them to the result in the first column of Table 4 in Boas and Hidalgo (2011) (it probably won't be the same, see the next questions).

The results here a different - we couldn't find a significant effect of owning a radio community in the percentage of votes, while the authors found a positive effect of 0.39 and significant at 5% level.

Table 4:

	Dependent variable:
	pctVV
treat	0.154
	(0.178)
Constant	2.594***
_	(0.126)
Observations	622
R^2	0.001
Adjusted R ²	-0.0004
Residual Std. Error	2.220 (df = 620)
F Statistic	0.753 (df = 1; 620)
Note:	*p<0.1: **p<0.05: ***p<

Note:

13. With lots of variables it's impossible to get perfect balance on all variables, there are just too many dimensions and too few units. One option to control for 'residual confounding' is to include the matching variables as control variables in our analysis regression. How does this change your estimated treatment effect?

The estimated treatment effect remains statistically insignificant, although now it's higher than the regression in Table 4.

Table 5:

	Dependent variable:
	pctVV
treat	0.181
	(0.142)
Constant	-45.121
	(122.583)
Observations	622
\mathbb{R}^2	0.426
Adjusted R ²	0.382
Residual Std. Error	1.745 (df = 577)
F Statistic	$9.730^{***} (df = 44; 57)$
Note:	*p<0.1; **p<0.05; ***p<

14. One risk with nearest-neighbour matching is that the control unit can still be far away from the treated unit if there are no good matches. Re-run the matching process from Q11 but with a caliper of 0.01 standard deviations, and then re-run the regression from Q12 (nocontrols). How does the number of units and the result change?

Our dataset is even smaller when the caliper is set at 0.01 - now we have 490 units. The main change compared to Table 4 is a higher S.E. for the treatment estimate, but its value is almost the same.

```
match3 <- matchit(treat ~ occBlue.collar+ occEducation+</pre>
                    occGovernment+ occMedia+ occNone+ occOther+
                    occPolitician+ occWhite.collar+ lat+ long+
                    ran.prior+ incumbent+ log.valid.votes+
                    party.prior.pctVV+ prior.pctVV+ elec.year+
                    match.partyPCB+ match.partyPC.do.B+
                                      match.partyPFL+match.partyPL+
                    match.partvPDT+
                    match.partyPMDB+ match.partyPMN+ match.partyPP+
                    match.partyPPS+match.partyPSB+ match.partyPSC+
                    match.partyPSDB+ match.partyPSDC+ match.partyPSL+
                    match.partyPT+ match.partyPTB+ match.partyPV+
                    uf.rs+ uf.sp+ yob+
                    eduMore.than.Primary..Less.than.Superior+
                    eduSome.Superior.or.More+ log.total.assets+
                    pt_pres_1998+ psdb_2000+ hdi_2000+
                    income_2000+log.num.apps, data = data, method = "nearest",
                  caliper=0.01)
datamatchit3 <- match.data(match3)</pre>
```

Table 6:

	$Dependent\ variable:$	
	pctVV	
treat	0.341^{*}	
	(0.199)	
Constant	2.545***	
	(0.141)	
Observations	490	
\mathbb{R}^2	0.006	
Adjusted R ²	0.004	
Residual Std. Error	2.203 (df = 488)	
F Statistic	$2.934^* \text{ (df} = 1; 488)$	
Note:	*p<0.1; **p<0.05; ***p<0.01	

15. Another problem with nearest neighbour matching is that it is 'greedy' - the first matches might make it harder to match well later. Boas and Hidalgo use genetic matching, which is a complex automated process to try and get the best 'overall' matches for the full dataset.Run genetic matching with the same variables and then run your regression (with no controls)again. Note:Genetic matching might take 10-20 minutes.

Using the matched units selected with the genetic method, our regression results are closer to those found by the authors - a positive effect of 0.42 and significant at 5% level for the owner of the radio station. [couldn't find how to remove the output of the matching estimation, sorry for the extra pages]

```
##
##
##
  Wed Jun 05 21:06:58 2019
##
   Domains:
##
    0.000000e+00
                     <=
                         X1
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X2
                               <=
                                     1.000000e+03
##
    0.000000e+00
                         ХЗ
                     <=
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X4
                               <=
                                     1.000000e+03
##
    0.000000e+00
                         Х5
                     <=
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         Х6
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X7
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         Х8
                               <=
                                     1.000000e+03
                         Х9
##
    0.000000e+00
                     <=
                               <=
                                     1.000000e+03
                         X10
##
    0.000000e+00
                     <=
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X11
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X12
                               <=
                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X13
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                                     1.000000e+03
##
    0.000000e+00
                         X14
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                                     1.000000e+03
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                         X15
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                                     1.000000e+03
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                         X16
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                                     1.000000e+03
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                         X17
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##
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                         X21
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    0.000000e+00
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                                     1.000000e+03
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    0.000000e+00
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                     <=
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                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X31
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                                     1.000000e+03
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                         X32
    0.000000e+00
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                                     1.000000e+03
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    0.000000e+00
                     <=
                         X33
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##
    0.000000e+00
                     <=
                         X34
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                                     1.000000e+03
##
    0.000000e+00
                     <=
                         X35
                               <=
                                     1.000000e+03
##
    0.000000e+00
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                         X36
                               <=
                                     1.000000e+03
##
    0.000000e+00
                         X37
                     <=
                               <=
                                     1.000000e+03
    0.000000e+00
                         X38
                               <=
                                     1.000000e+03
```

```
0.000000e+00
                    X39
                       <=
                              1.000000e+03
##
   0.000000e+00
                    X40
                              1.000000e+03
                <=
                        <=
  0.000000e+00
                    X41
                        <=
                              1.000000e+03
                   X42 <=
##
  0.000000e+00
                              1.000000e+03
                <=
   0.000000e+00
                    X43
                        <=
                              1.000000e+03
  0.000000e+00
                   X44
##
                <=
                       <=
                             1.000000e+03
  0.000000e+00
                <= X45 <=
                             1.000000e+03
##
## Data Type: Floating Point
## Operators (code number, name, population)
   (1) Cloning.....
   (2) Uniform Mutation.....
##
   (3) Boundary Mutation..... 12
  (4) Non-Uniform Mutation..... 12
##
##
  ##
   (6) Simple Crossover.....
                                      12
##
   (7) Whole Non-Uniform Mutation..... 12
   (8) Heuristic Crossover..... 12
##
  (9) Local-Minimum Crossover..... 0
##
## SOFT Maximum Number of Generations: 100
## Maximum Nonchanging Generations: 4
## Population size
                     : 100
## Convergence Tolerance: 1.000000e-03
##
## Not Using the BFGS Derivative Based Optimizer on the Best Individual Each Generation.
## Not Checking Gradients before Stopping.
## Using Out of Bounds Individuals.
##
## Maximization Problem.
## GENERATION: 0 (initializing the population)
## Lexical Fit..... 4.840572e-14 3.136970e-08 2.754254e-05 5.397690e-04 5.397690e-04 1.064940e-03
## #unique..... 100, #Total UniqueCount: 100
## var 1:
## best..... 9.157525e+02
## mean..... 4.685202e+02
## variance..... 8.253417e+04
## var 2:
## best..... 6.252681e+02
## mean..... 4.932169e+02
## variance..... 8.180819e+04
## var 3:
## best..... 9.086391e+02
## mean..... 4.997848e+02
## variance..... 8.694898e+04
## var 4:
## best..... 3.106055e+02
## mean..... 4.898202e+02
## variance..... 8.390545e+04
## var 5:
## best..... 5.275081e+02
## mean..... 4.536814e+02
## variance..... 8.349687e+04
## var 6:
```

##	best	5.009612e+02
##	mean	5.053608e+02
##	variance	8.775968e+04
##	var 7:	
##	best	8.795406e+02
##	\mathtt{mean}	4.945197e+02
##	${\tt variance}$	8.051650e+04
##	var 8:	
##	best	9.129328e+02
##	mean	5.557360e+02
##	variance	8.085227e+04
##	var 9:	
##	best	1.908465e+01
##	mean	5.574915e+02
##	variance	8.913910e+04
##	var 10:	4 400770 .00
##	best	4.609773e+02
##	mean	5.061495e+02 7.967931e+04
##	variancevar 11:	7.967931e+04
##	best	7.680843e+02
##	mean	5.169704e+02
##	variance	9.052824e+04
##	var 12:	9.0020246104
##	best	8.802343e+02
##	mean	4.781501e+02
##	variance	7.423498e+04
##	var 13:	
##	best	9.898330e+02
##	mean	5.016997e+02
##	variance	8.493175e+04
##	var 14:	
##	best	4.097039e+02
##	mean	5.142045e+02
##	${\tt variance}$	8.464386e+04
##	var 15:	
##	best	1.212329e+02
##	\mathtt{mean}	
##		8.002572e+04
##		
##	best	
##	mean	5.144085e+02
	variance	6.960487e+04
##	var 17:	7 777074 .00
##	best	
##	meanvariance	
##		7.616623e+04
##	var 18:	0 504040-100
##	best mean	
##	meanvariance	
##	variancevar 19:	0.0001090+04
##	best	3 1424925+02
##	mean	
117 117	шоши	0.1000406102

##	variance	7.856956e+04
##	var 20:	
##	best	7.183121e+02
##	\mathtt{mean}	5.182665e+02
##	variance	8.756815e+04
##	var 21:	
##	best	8.882693e+02
##	mean	4.803548e+02
##	variance	6.460077e+04
##	var 22:	
##	best	9.685443e+02
##	mean	5.292066e+02
##	variance	9.649028e+04
##	var 23:	
##	best	1.199528e+02
##	mean	4.716530e+02
##	variance	6.829197e+04
##	var 24:	
##	best	8.738679e+02
##	\mathtt{mean}	4.670161e+02
##	variance	8.228941e+04
##	var 25:	
##	best	8.293454e+01
##	\mathtt{mean}	4.704571e+02
##	variance	9.231983e+04
##	var 26:	
##	best	4.719789e+02
##	\mathtt{mean}	5.098467e+02
##	variance	7.673731e+04
##	var 27:	
##	best	9.403132e+02
##	\mathtt{mean}	5.124856e+02
##	variance	8.403951e+04
##	var 28:	
##	best	4.372535e+02
##	\mathtt{mean}	4.948387e+02
##	variance	9.676001e+04
##	var 29:	
##	best	9.480691e+02
##	mean	5.109114e+02
##	variance	8.022971e+04
##	var 30:	
##	best	2.242920e+02
##	mean	4.716088e+02
##	variance	8.035251e+04
##	var 31:	
##	best	2.652830e+02
##	mean	5.174164e+02
##	variance	
##	var 32:	
##	best	4.183890e+02
##	mean	
##	variance	
##	var 33:	

```
## mean..... 5.391529e+02
## variance..... 8.399086e+04
## var 34:
## best..... 4.781214e+02
## mean..... 5.103103e+02
## variance..... 8.226203e+04
## var 35:
## best..... 4.374692e+02
## mean..... 5.481421e+02
## variance..... 7.423729e+04
## var 36:
## best..... 4.814227e+02
## mean..... 4.411797e+02
## variance..... 9.155694e+04
## var 37:
## best..... 9.623621e+02
## mean.... 5.150692e+02
## variance..... 6.833361e+04
## var 38:
## best..... 6.887654e+02
## mean..... 4.857820e+02
## variance..... 8.012488e+04
## var 39:
## best..... 9.874180e+02
## mean..... 4.758997e+02
## variance..... 8.711761e+04
## var 40:
## best..... 8.409507e+02
## mean..... 4.880168e+02
## variance..... 8.524596e+04
## var 41:
## best..... 8.261398e+01
## mean..... 4.943243e+02
## variance..... 9.323250e+04
## var 42:
## best..... 4.394318e+02
## mean..... 4.919783e+02
## variance..... 9.018728e+04
## var 43:
## best..... 4.799570e+02
## mean..... 4.864600e+02
## variance..... 7.550769e+04
## var 44:
## best..... 9.820195e+02
## mean..... 4.728979e+02
## variance..... 9.881169e+04
## var 45:
## best..... 9.125135e+02
## mean..... 5.261277e+02
## variance..... 8.015397e+04
##
## GENERATION: 1
## Lexical Fit..... 2.959410e-12 4.228143e-09 1.193392e-04 1.645441e-03 2.248251e-03 1.105689e-02
```

best..... 8.726932e+02

```
## #unique...... 74, #Total UniqueCount: 174
## var 1:
## best..... 8.473910e+02
## mean..... 7.821659e+02
## variance..... 2.562475e+04
## var 2:
## best..... 1.388429e+02
## mean..... 4.316382e+02
## variance..... 5.817843e+04
## var 3:
## best..... 5.206629e+02
## mean..... 6.401898e+02
## variance..... 5.585475e+04
## var 4:
## best..... 5.414736e+02
## mean..... 4.622048e+02
## variance..... 5.095264e+04
## var 5:
## best..... 1.671500e+02
## mean..... 3.957429e+02
## variance..... 5.042076e+04
## var 6:
## best..... 1.873017e+02
## mean..... 4.192664e+02
## variance..... 4.792603e+04
## var 7:
## best..... 1.671523e+02
## mean..... 5.645939e+02
## variance..... 7.908916e+04
## var 8:
## best..... 5.316644e+02
## mean..... 7.004736e+02
## variance..... 5.393624e+04
## var 9:
## best..... 8.410554e+02
## mean..... 4.579109e+02
## variance..... 1.177507e+05
## var 10:
## best..... 3.786899e+02
## mean..... 4.243568e+02
## variance..... 3.824994e+04
## var 11:
## best..... 7.878851e+02
## mean..... 6.238929e+02
## variance..... 6.196300e+04
## var 12:
## best..... 6.615691e+02
## mean..... 6.674312e+02
## variance..... 5.614038e+04
## var 13:
## best..... 1.164829e+02
## mean..... 5.387334e+02
## variance..... 1.311094e+05
## var 14:
```

##	best	5.599718e+02
##	mean	4.400792e+02
##	variance	4.067222e+04
##	var 15:	
##	best	1.498743e+02
##	mean	3.352386e+02
##	variance	8.461953e+04
##	var 16:	0.1010000 01
##	best	1.538766e+02
##	mean	4.071345e+02
##	variance	4.603684e+04
##	var 17:	4.0030046104
##	-	8.997392e+02
	best	
##	mean	7.023226e+02
##	variance	5.255165e+04
##	var 18:	
##	best	9.313124e+02
##	mean	7.173693e+02
##	variance	7.627083e+04
##	var 19:	
##	best	8.417520e+02
##	\mathtt{mean}	5.738475e+02
##	variance	5.509311e+04
##	var 20:	
##	best	1.385053e+01
##	\mathtt{mean}	4.584187e+02
##	variance	9.659250e+04
##	var 21:	
##	best	6.517893e+02
##	\mathtt{mean}	6.120698e+02
##	variance	5.761261e+04
##	var 22:	
##	best	8.515415e+02
##	\mathtt{mean}	7.227057e+02
##	variance	8.290317e+04
##	var 23:	
##	best	4.019823e+02
##	mean	3.681610e+02
##	variance	4.891761e+04
##	var 24:	
##	best	1.885077e+01
##	mean	5.330635e+02
##	variance	1.169568e+05
##	var 25:	
##	best	9.863778e+02
##	mean	4.582804e+02
##	variance	1.439849e+05
##	var 26:	
##	best	4.086403e+02
##	mean	4.308664e+02
##	variance	3.360509e+04
##	var 27:	
##	best	4.406212e+02
##	mean	

##	variance	6.762238e+04
##	var 28:	
##	best	2.427430e+02
##	\mathtt{mean}	4.680804e+02
##	variance	6.859431e+04
##	var 29:	
##	best	4.026731e+02
##	\mathtt{mean}	5.950596e+02
##	variance	7.009338e+04
##	var 30:	
##	best	8.711957e+02
##	\mathtt{mean}	4.752536e+02
##	variance	7.496156e+04
##	var 31:	
##	best	4.702200e+02
##	\mathtt{mean}	4.491649e+02
##	variance	5.991749e+04
##	var 32:	
##	best	1.845029e+02
##	\mathtt{mean}	3.978659e+02
##	variance	4.077423e+04
##	var 33:	
##	best	3.813922e+02
##	\mathtt{mean}	5.876538e+02
##	variance	6.121022e+04
##	var 34:	
##	best	1.033002e+02
##	\mathtt{mean}	3.798965e+02
##	variance	5.065427e+04
##	var 35:	
##	best	8.145935e+02
##	\mathtt{mean}	5.791248e+02
##	variance	4.918762e+04
##	var 36:	
##	best	4.503958e+01
##	mean	3.099819e+02
##	variance	4.957126e+04
##	var 37:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	7.903358e+04
##	var 38:	
##	best	
##	\mathtt{mean}	
##	variance	8.446360e+04
##	var 39:	
##	best	
##	\mathtt{mean}	
##	variance	7.102198e+04
##	var 40:	
##	best	
##	\mathtt{mean}	
##	variance	7.901345e+04
##	var 41:	

```
## best..... 1.782865e+02
## mean..... 2.652275e+02
## variance..... 5.122924e+04
## var 42:
## best..... 2.456514e+02
## mean..... 4.898765e+02
## variance..... 3.799910e+04
## var 43:
## best..... 6.138026e+02
## mean..... 5.521636e+02
## variance..... 4.518695e+04
## var 44:
## best..... 9.113682e+02
## mean..... 7.066626e+02
## variance..... 7.729468e+04
## var 45:
## best..... 7.395821e+02
## mean..... 7.927939e+02
## variance..... 2.898253e+04
##
## GENERATION: 2
## Lexical Fit..... 4.447553e-12 9.624767e-09 1.193392e-04 1.814316e-03 2.218972e-03 6.379196e-03
## #unique...... 73, #Total UniqueCount: 247
## best..... 8.473910e+02
## mean..... 8.739335e+02
## variance..... 9.416513e+03
## var 2:
## best..... 1.388429e+02
## mean..... 4.220929e+02
## variance..... 5.051583e+04
## var 3:
## best..... 5.206629e+02
## mean..... 7.357750e+02
## variance..... 3.634463e+04
## var 4:
## best..... 5.414736e+02
## mean..... 4.073927e+02
## variance..... 1.558287e+04
## var 5:
## best..... 1.671500e+02
## mean..... 3.811236e+02
## variance..... 3.060096e+04
## var 6:
## best..... 1.873017e+02
## mean..... 3.609756e+02
## variance..... 2.011662e+04
## var 7:
## best..... 1.671523e+02
## mean..... 5.701640e+02
## variance..... 1.061108e+05
## var 8:
## best..... 5.316644e+02
## mean..... 7.439089e+02
```

	variance	3.450722e+04
##	var 9:	
##	best	
##	mean	
##	variance	1.315740e+05
##	var 10:	
##	best	3.786899e+02
##	\mathtt{mean}	
##	variance	3.838275e+03
##	var 11:	
##	best	
##	\mathtt{mean}	
##	variance	1.610458e+04
##	var 12:	
##	best	6.615691e+02
##	\mathtt{mean}	7.780628e+02
##	variance	1.109503e+04
##	var 13:	
##	best	1.164829e+02
##	\mathtt{mean}	6.023888e+02
##	variance	1.573811e+05
##	var 14:	
##	best	5.599718e+02
##	mean	4.846552e+02
##	variance	1.025766e+04
##	var 15:	
##	best	1.498743e+02
##	mean	1.572515e+02
##	variance	1.108862e+04
##	var 16:	
##	best	1.538766e+02
##	mean	3.285753e+02
##	variance	1.887210e+04
##		
##	best	8.997392e+02
##	mean	
##	variance	1.069905e+04
##	var 18:	
##	best	9.313124e+02
##	mean	8.457730e+02
##	variance	1.909657e+04
##		
##	best	8.417520e+02
##	mean	5.281028e+02
##		
##	var 20:	
##	best	1.385053e+01
##	mean	
##	variance	
##	var 21:	
##	best	6.517893e+02
##	mean	
	variance	
	var 22:	

##	best	8.515415e+02
##	mean	8.835012e+02
##	variance	1.743008e+04
##	var 23:	
##	best	4.019823e+02
##	mean	2.383772e+02
##	variance	1.934789e+04
##	var 24:	
##	best	1.885077e+01
##	\mathtt{mean}	5.158949e+02
##	${\tt variance}$	1.329044e+05
##	var 25:	
##	best	9.863778e+02
##	\mathtt{mean}	4.573152e+02
##	${\tt variance}$	1.471330e+05
##	var 26:	
##	best	4.086403e+02
##	\mathtt{mean}	4.495828e+02
##	variance	1.060406e+04
##	var 27:	
##	best	4.406212e+02
##	\mathtt{mean}	7.102683e+02
##	variance	5.255334e+04
##	var 28:	
##	best	2.427430e+02
##	mean	3.685483e+02
##	variance	1.718895e+04
##	var 29:	
##	best	4.026731e+02
##	mean	7.172686e+02
##	variance	5.670439e+04
##	var 30:	0.711057-100
##	best	8.711957e+02 5.067648e+02
##	mean	8.002559e+04
##	variancevar 31:	0.0025596+04
##	best	4.702200e+02
##		
##		
	var 32:	1.0710100.04
##	best	1 845029e+02
##	mean	3.264947e+02
	variance	
##		1.00000070.01
##	best	3.813922e+02
##	mean	
##	variance	
##	var 34:	
##	best	1.033002e+02
##	mean	
##		
##	var 35:	
##	best	8.145935e+02
##	mean	5.928096e+02

```
## variance..... 3.119244e+04
## var 36:
## best..... 4.503958e+01
## mean..... 2.995850e+02
## variance..... 4.182062e+04
## var 37:
## best..... 4.242729e+02
## mean..... 7.042296e+02
## variance..... 6.982929e+04
## var 38:
## best..... 3.875059e+02
## mean..... 5.163741e+02
## variance..... 4.612774e+04
## var 39:
## best..... 4.827351e+02
## mean..... 8.001225e+02
## variance..... 4.427018e+04
## var 40:
## best..... 2.896857e+02
## mean..... 5.883277e+02
## variance..... 7.113080e+04
## var 41:
## best..... 1.782865e+02
## mean..... 1.618084e+02
## variance..... 2.111021e+04
## var 42:
## best..... 2.456514e+02
## mean..... 4.011496e+02
## variance..... 1.526826e+04
## var 43:
## best..... 6.138026e+02
## mean..... 6.331403e+02
## variance..... 1.736671e+04
## var 44:
## best..... 9.113682e+02
## mean..... 8.224058e+02
## variance..... 2.938005e+04
## var 45:
## best..... 7.395821e+02
## mean..... 8.324265e+02
## variance..... 4.853418e+03
##
## GENERATION: 3
## Lexical Fit..... 6.893330e-11 2.204313e-07 2.390095e-04 2.127839e-03 1.031191e-02 1.166051e-02
## #unique...... 64, #Total UniqueCount: 311
## var 1:
## best..... 8.473895e+02
## mean..... 8.512779e+02
## variance..... 1.207337e+03
## var 2:
## best..... 1.098012e+02
## mean..... 1.704199e+02
## variance..... 2.270261e+04
```

var 3:

##	best	6.083426e+02
##	\mathtt{mean}	5.952015e+02
##	${\tt variance}$	2.165625e+04
##	var 4:	
##	best	5.414786e+02
##	mean	5.208074e+02
##	variance	9.218125e+03
##	var 5:	
##	best	1.262890e+02
##	mean	1.777647e+02
##	variance	1.587881e+04
##	var 6:	
##	best	1.872951e+02
##	mean	2.149533e+02
##	variance	8.778128e+03
##	var 7:	
##	best	1.671373e+02
##	mean	2.361026e+02
##	variance	3.945953e+04
##	var 8:	
##	best	6.502345e+02
##	mean	6.338766e+02
##	variance	2.217284e+04
##	var 9:	
##	best	8.410728e+02
##	mean	7.519498e+02
##	variance	5.257396e+04
##	var 10:	
##	best	3.786881e+02
##	mean	3.962268e+02
##	variance	9.411259e+03
##	var 11:	
##	best	7.878854e+02
##	mean	7.617760e+02
##	variance	1.220213e+04
##	var 12:	
##	best	6.184483e+02
##	mean	6.370891e+02
##	variance	9.590139e+03
##	var 13:	
##	best	1.164644e+02
##	mean	
##	variance	
##	var 14:	
##	best	5.599750e+02
##	mean	5.430436e+02
##	variance	
##	var 15:	
##	best	1.498751e+02
##	mean	
##	variance	
##	var 16:	
##	best	1.538701e+02
##	mean	1.960065e+02

##	variance	1.200300e+04
##	var 17:	
##	best	8.997418e+02
##	\mathtt{mean}	8.714836e+02
##	variance	1.059911e+04
##	var 18:	
##	best	9.390031e+02
##	\mathtt{mean}	9.036124e+02
##	variance	1.475626e+04
##	var 19:	
##	best	8.417632e+02
##	mean	7.791712e+02
##	variance	2.708091e+04
##	var 20:	
##	best	1.383571e+01
##	mean	9.436418e+01
##	variance	4.199726e+04
##	var 21:	
##	best	4.731947e+02
##	mean	5.496868e+02
##	variance	4.250593e+04
##	var 22:	0.545000
##	best	8.515390e+02
##	mean	8.321323e+02
##	variance	1.143747e+04
##	var 23:	4.019884e+02
##	mean	3.766542e+02
##	variance	6.534311e+03
##	var 24:	0.0040116.00
##	best	1.883276e+01
##	mean	9.635350e+01
##	variance	5.163027e+04
##	var 25:	0.1000270.01
##	best	8.643513e+02
##	mean	8.231720e+02
##	variance	6.093770e+04
##	var 26:	
##	best	2.904164e+02
##	mean	
##	variance	2.046765e+04
##	var 27:	
##	best	4.406107e+02
##	mean	4.793566e+02
##	variance	2.184738e+04
##	var 28:	
##	best	2.427390e+02
##	mean	2.694505e+02
##	variance	
##	var 29:	
##	best	4.026616e+02
##	mean	4.463365e+02
##	variance	2.487822e+04
##	var 30:	

8.712094e+02
7.986887e+02
3.548677e+04
4.702244e+02
4.664332e+02
6.802814e+03
1.844981e+02
2.316848e+02
1.318128e+04
3.813818e+02
4.362721e+02
2.256558e+04
1.032922e+02
1.497480e+02
1.600526e+04
7.774782e+02
7.442649e+02
1.470181e+04
4.503034e+01
9.409172e+01
1.836261e+04
0.074007 :00
3.874887e+02
4.406841e+02
2.957036e+04
3.874995e+02
4.119802e+02
4.119602e+02 9.157670e+03
9.13/0/0e+03
4.827244e+02
5.327584e+02
2.410463e+04
2.4104000.04
4.580223e+02
4.588168e+02
4.637619e+04
1100,0100
1.782886e+02
1.993890e+02
1.128522e+04
2.023794e+02
2.528640e+02
1.297981e+04
6.138054e+02
6.142822e+02

```
## variance..... 7.156848e+03
## var 44:
## best..... 9.113667e+02
## mean..... 8.856798e+02
## variance..... 6.289699e+03
## var 45:
## best..... 7.395785e+02
## mean..... 7.409711e+02
## variance..... 6.256765e+03
##
## GENERATION: 4
## Lexical Fit..... 2.853843e-09 4.649014e-09 6.379196e-03 6.379196e-03 8.986808e-03 9.662391e-03
## #unique...... 75, #Total UniqueCount: 386
## var 1:
## best..... 9.615169e+02
## mean..... 8.449256e+02
## variance..... 8.046871e+03
## var 2:
## best..... 1.101154e+02
## mean..... 1.394710e+02
## variance..... 1.083555e+04
## var 3:
## best..... 5.140653e+02
## mean..... 5.754523e+02
## variance..... 7.077314e+03
## var 4:
## best..... 9.416877e+02
## mean..... 6.247828e+02
## variance..... 2.096643e+04
## var 5:
## best..... 4.879817e+02
## mean..... 1.967881e+02
## variance..... 1.722082e+04
## var 6:
## best..... 1.278623e+02
## mean..... 1.953587e+02
## variance..... 7.872303e+03
## var 7:
## best..... 1.996137e+02
## mean..... 1.874075e+02
## variance..... 7.030545e+03
## var 8:
## best..... 5.873719e+02
## mean..... 6.114581e+02
## variance..... 9.148722e+03
## var 9:
## best..... 3.095434e+02
## mean..... 7.386672e+02
## variance..... 3.132877e+04
## var 10:
## best..... 4.144580e+02
## mean..... 4.172300e+02
## variance..... 1.274457e+04
```

var 11:

##	best	8.353860e+02
##	\mathtt{mean}	7.747414e+02
##	variance	6.762787e+03
##	var 12:	
##	best	6.407883e+02
##	\mathtt{mean}	6.197901e+02
##	variance	3.025550e+03
##	var 13:	
##	best	1.024418e+02
##	\mathtt{mean}	1.381831e+02
##	variance	1.065769e+04
##	var 14:	
##	best	3.584847e+02
##	\mathtt{mean}	5.191252e+02
##	variance	1.069954e+04
##	var 15:	
##	best	2.331778e+02
##	mean	1.764979e+02
##	variance	7.699279e+03
##	var 16:	
##	best	9.393357e+01
##	\mathtt{mean}	1.810208e+02
##	variance	1.192926e+04
##	var 17:	
##	best	9.761627e+02
##	mean	8.913215e+02
##	variance	7.801318e+03
##	var 18:	
##	best	9.065966e+02
##	\mathtt{mean}	9.123785e+02
##	variance	1.070465e+04
##	var 19:	
##	best	2.745208e+02
##	\mathtt{mean}	7.215392e+02
##	variance	3.910216e+04
##	var 20:	
##	best	1.263170e+01
##	\mathtt{mean}	2.450516e+01
##	variance	1.920595e+03
##	var 21:	
##	best	
##	\mathtt{mean}	
##		1.487591e+04
##	var 22:	
##	best	
##	\mathtt{mean}	
##	variance	1.055948e+04
##	var 23:	
##	best	
##	\mathtt{mean}	
##		4.357647e+03
##		
##	best	
##	\mathtt{mean}	4.463221e+01

##	variance	6.946517e+03
##	var 25:	
##	best	4.981351e+02
##	\mathtt{mean}	7.957459e+02
##	variance	2.736769e+04
##	var 26:	
##	best	2.905035e+02
##	\mathtt{mean}	3.063346e+02
##	variance	8.651696e+03
##	var 27:	
##	best	3.606507e+02
##	\mathtt{mean}	4.278834e+02
##	variance	5.156581e+03
##	var 28:	
##	best	2.370096e+02
##	\mathtt{mean}	2.639720e+02
##	variance	8.389215e+03
##	var 29:	
##	best	3.999863e+02
##	\mathtt{mean}	4.042304e+02
##	variance	4.211133e+03
##	var 30:	
##	best	9.135889e+02
##	\mathtt{mean}	8.582924e+02
##	variance	7.718984e+03
##	var 31:	
##	best	4.649510e+02
##	\mathtt{mean}	4.704022e+02
##	variance	2.870156e+03
##	var 32:	
##	best	8.720830e+01
##	mean	2.326132e+02
##	variance	1.335992e+04
##	var 33:	
##	best	4.063947e+02
##	mean	4.053592e+02
##	variance	7.527444e+03
##	var 34:	
##	best	
##	mean	
##	${\tt variance}$	2.161683e+03
##	var 35:	
##	best	
##	\mathtt{mean}	
##	variance	4.919932e+03
##	var 36:	
##	best	
##	mean	
##	variance	7.996080e+03
##	var 37:	
##	best	
##	mean	
##	variance	7.338694e+03
##	var 38:	

```
## best..... 7.100184e+02
## mean..... 4.421722e+02
## variance..... 1.098163e+04
## var 39:
## best..... 2.209357e+02
## mean..... 4.412245e+02
## variance..... 1.445288e+04
## var 40:
## best..... 2.603924e+02
## mean..... 4.158918e+02
## variance..... 2.271347e+04
## var 41:
## best..... 1.796469e+02
## mean..... 1.908777e+02
## variance..... 8.759476e+03
## var 42:
## best..... 1.827878e+02
## mean..... 2.276178e+02
## variance..... 8.563536e+03
## var 43:
## best..... 7.501795e+02
## mean..... 6.032542e+02
## variance..... 1.421756e+04
## var 44:
## best..... 9.228763e+02
## mean..... 8.883342e+02
## variance..... 7.342651e+03
## var 45:
## best..... 7.544129e+02
## mean..... 7.308261e+02
## variance..... 3.178155e+03
##
## GENERATION: 5
## Lexical Fit..... 2.853843e-09 4.649014e-09 6.379196e-03 6.379196e-03 8.986808e-03 9.662391e-03
## #unique...... 74, #Total UniqueCount: 460
## var 1:
## best..... 9.615169e+02
## mean..... 8.657398e+02
## variance..... 1.442557e+04
## var 2:
## best..... 1.101154e+02
## mean..... 1.332551e+02
## variance..... 8.341193e+03
## var 3:
## best..... 5.140653e+02
## mean..... 5.454654e+02
## variance..... 8.291854e+03
## var 4:
## best..... 9.416877e+02
## mean..... 6.990725e+02
## variance..... 5.160746e+04
## var 5:
## best..... 4.879817e+02
## mean..... 2.825804e+02
```

##	variance	3.985191e+04
##	var 6:	
##	best	1.278623e+02
##	\mathtt{mean}	1.711249e+02
##	variance	4.714100e+03
##	var 7:	
##	best	1.996137e+02
##	mean	1.921416e+02
##	variance	6.821968e+03
##	var 8:	
##	best	5.873719e+02
##	mean	6.058432e+02
##	variance	4.894481e+03
##	var 9:	
##	best	3.095434e+02
##	mean	6.301334e+02
##	variance	7.963433e+04
##	var 10:	
##	best	4.144580e+02
##	mean	4.140595e+02
##	variance	7.401196e+03
##	var 11:	7.1011000.00
##	best	8.353860e+02
##	mean	7.925760e+02
##	variance	4.559752e+03
##	var 12:	4.0037026100
##	best	6.407883e+02
##	mean	6.165062e+02
##	variance	5.072397e+03
##	var 13:	3.072397e103
##	1	1.024418e+02
##		1.308945e+02
##	mean	5.295251e+03
##	variancevar 14:	5.2952516+03
		2 504047-100
##	best	3.584847e+02 4.966955e+02
##	mean	4.966955e+02 1.722187e+04
##	variance	1.722187e+04
##	var 15:	0 001770-100
##	best	2.331778e+02
##	mean	1.945912e+02
##	variance	7.206186e+03
##	var 16:	
##	best	9.393357e+01
##	mean	1.453949e+02
##	variance	4.301622e+03
##	var 17:	
##	best	9.761627e+02
##	mean	8.897650e+02
##	variance	1.701918e+04
##	var 18:	
##	best	9.065966e+02
##	\mathtt{mean}	9.169645e+02
##	variance	1.939484e+03
##	var 19:	

##	best	2.745208e+02
##	\mathtt{mean}	6.102042e+02
##	variance	8.531853e+04
##	var 20:	
##	best	1.263170e+01
##	\mathtt{mean}	4.955381e+01
##	variance	1.574280e+04
##	var 21:	
##	best	4.373546e+02
##	\mathtt{mean}	4.614148e+02
##	variance	2.166570e+03
##	var 22:	
##	best	8.384156e+02
##	mean	8.156901e+02
##	variance	9.816899e+03
##	var 23:	
##	best	4.562825e+02
##	mean	4.389945e+02
##	variance	6.881319e+03
##	var 24:	
##	best	1.827961e+01
##	mean	5.523046e+01
##	variance	1.490217e+04
##	var 25:	4 004054 .00
##	best	4.981351e+02
##	mean	7.070353e+02
##	variancevar 26:	3.976691e+04
##	best	2.905035e+02
##	mean	3.020350e+02
##	variance	8.618917e+03
##	var 27:	0.0103170.00
##	best	3.606507e+02
##	mean	4.255502e+02
##	variance	9.504188e+03
##	var 28:	0.0011000
##	best	2.370096e+02
##	mean	2.681725e+02
##	variance	
	var 29:	
##	best	3.999863e+02
##	mean	4.150614e+02
##	variance	5.892588e+03
##	var 30:	
##	best	9.135889e+02
##	mean	8.617997e+02
##	variance	9.796362e+03
##	var 31:	
##	best	4.649510e+02
##	\mathtt{mean}	4.617753e+02
##		4.719760e+03
##	var 32:	
##	best	
##	\mathtt{mean}	1.601985e+02

##	variance	7.609509e+03
##	var 33:	
##	best	4.063947e+02
##	\mathtt{mean}	4.102594e+02
##	variance	6.161264e+03
##	var 34:	
##	best	1.362306e+02
##	mean	1.385115e+02
##	variance	1.109254e+04
##	var 35:	
##	best	6.891770e+02
##	mean	7.302256e+02
##	variance	6.437208e+03
##	var 36:	0 050000 .04
##	best	2.659986e+01
##	mean	7.603460e+01
##	variance	1.799588e+04
##	var 37:	2 540076 :00
##	best	3.549976e+02
##	mean	3.767749e+02
##	variance	4.238834e+03
##	var 38:	7 400404 :00
##	best	7.100184e+02
##	mean	5.159671e+02
##	variance	3.393995e+04
##	var 39:	0 000257-100
##	best	2.209357e+02 3.899647e+02
##	mean	3.899647e+02 2.494347e+04
##	variance	2.494347e+04
##	var 40:	2.603924e+02
##	best	3.769272e+02
##	meanvariance	1.368977e+04
##	var 41:	1.3009//6+04
##	best	1.796469e+02
##	mean	2.008035e+02
##	variance	6.709009e+03
##		0.7090096103
##		1.827878e+02
##	mean	2.093153e+02
##		
##		4.0000706703
##		7.501795e+02
##	mean	
##	variance	
##	var 44:	7.0011000.00
##	best	9.228763e+02
##	mean	
##	variance	1.263744e+04
##	var 45:	1.2001440.04
##	best	7.544129e+02
##	mean	
##	variance	
##		2.0100000.00
ır II		

```
## GENERATION: 6
## Lexical Fit..... 3.096860e-09 1.354309e-07 3.349978e-04 5.236037e-03 5.994391e-03 1.632592e-02
## #unique...... 73, #Total UniqueCount: 533
## var 1:
## best..... 8.240461e+02
## mean..... 8.897172e+02
## variance..... 8.019384e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.124194e+02
## variance..... 1.534132e+03
## var 3:
## best..... 6.326810e+02
## mean..... 5.698683e+02
## variance..... 8.077278e+03
## var 4:
## best..... 4.596208e+02
## mean..... 7.269303e+02
## variance..... 4.934613e+04
## var 5:
## best..... 4.995327e+01
## mean..... 3.124838e+02
## variance..... 4.290433e+04
## var 6:
## best..... 1.994509e+02
## mean..... 1.743479e+02
## variance..... 5.473526e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.868322e+02
## variance..... 1.303296e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.249051e+02
## variance..... 2.903290e+03
## var 9:
## best..... 9.497919e+02
## mean..... 5.814849e+02
## variance..... 8.832751e+04
## var 10:
## best..... 3.713717e+02
## mean..... 4.063393e+02
## variance..... 4.436105e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.951471e+02
## variance..... 5.908996e+03
## var 12:
## best..... 6.113928e+02
## mean..... 6.127764e+02
## variance..... 6.030363e+03
## var 13:
## best..... 1.193314e+02
## mean..... 1.210775e+02
```

##	variance	4.034851e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	4.585374e+02
##	variance	1.536773e+04
##	var 15:	
##	best	1.328365e+02
##	\mathtt{mean}	2.006144e+02
##	variance	5.021193e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.606649e+02
##	variance	1.162058e+04
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	9.151279e+02
##	variance	9.372451e+03
##	var 18:	
##	best	9.444495e+02
##	mean	9.015138e+02
##	variance	6.222403e+03
##	var 19:	
##	best	9.311189e+02
##	mean	5.651252e+02
##	variance	9.702994e+04
##	var 20:	
##	best	1.402471e+01
##	mean	3.530536e+01
##	variance	8.593851e+03
##	var 21:	
##	best	4.709105e+02
##	mean	4.518122e+02
##	variance	5.898806e+03
##	var 22:	
##	best	8.536062e+02
##	\mathtt{mean}	8.212893e+02
##	variance	9.837932e+03
##	var 23:	
##	best	3.934359e+02
##	\mathtt{mean}	4.418272e+02
##	variance	7.027368e+03
##	var 24:	
##	best	1.891909e+01
##	mean	3.359302e+01
##	variance	4.011787e+03
##	var 25:	
##	best	9.166215e+02
##	mean	6.794975e+02
##	variance	4.225997e+04
##	var 26:	
##	best	2.851533e+02
##	mean	2.916764e+02
##	variance	1.825478e+03
##	var 27:	

##	best	4.532059e+02
##	\mathtt{mean}	4.121089e+02
##	variance	6.897446e+03
##	var 28:	
##	best	2.436413e+02
##	\mathtt{mean}	2.656990e+02
##	variance	7.420731e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.036353e+02
##	variance	1.698872e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.686181e+02
##	variance	1.424560e+04
##	var 31:	
##	best	4.710553e+02
##	mean	4.633557e+02
##	variance	3.850286e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.554845e+02
##	variance	1.055823e+04
##	var 33:	
##	best	3.763827e+02
##	mean	4.023450e+02
##	variance	4.899233e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.396060e+02
##	variance	1.269708e+04
##	var 35:	
##	best	7.930334e+02
##	mean	7.245377e+02
##	variance	4.514605e+03
##	var 36:	110210000
##	best	4.871291e+01
##		
	variance	
	var 37:	_,0001020.01
##		3.919096e+02
##	mean	
	variance	
##		7.0010000.00
##	best	3.230480e+02
##	mean	
##		
##	var 39:	0.0001006104
##	best	5 3503886+02
##	mean	
	variance	
##		2.00021e+04
##	best	5 0600830±00
##	mean	3 72/1127~±00

```
## variance..... 1.643268e+04
## var 41:
## best..... 1.670743e+02
## mean..... 1.866545e+02
## variance..... 3.510794e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.169493e+02
## variance..... 9.962488e+03
## var 43:
## best..... 5.865530e+02
## mean..... 6.706144e+02
## variance..... 1.091508e+04
## var 44:
## best..... 9.090666e+02
## mean..... 9.004133e+02
## variance..... 6.534295e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.296848e+02
## variance..... 5.557565e+03
## GENERATION: 7
## Lexical Fit..... 3.096860e-09 1.354309e-07 3.349978e-04 5.236037e-03 5.994391e-03 1.632592e-02
## #unique...... 69, #Total UniqueCount: 602
## var 1:
## best..... 8.240461e+02
## mean..... 8.553191e+02
## variance..... 7.631460e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.408224e+02
## variance..... 1.149004e+04
## var 3:
## best..... 6.326810e+02
## mean..... 5.901604e+02
## variance..... 1.093297e+04
## var 4:
## best..... 4.596208e+02
## mean..... 5.929325e+02
## variance..... 4.311602e+04
## var 5:
## best..... 4.995327e+01
## mean..... 1.956818e+02
## variance..... 4.028457e+04
## var 6:
## best..... 1.994509e+02
## mean..... 1.936294e+02
## variance..... 7.406386e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.949018e+02
## variance..... 7.233015e+03
## var 8:
```

##	best	6.699284e+02
##	\mathtt{mean}	6.469968e+02
##	variance	3.813227e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	7.494308e+02
##	variance	7.521071e+04
##	var 10:	
##	best	3.713717e+02
##	mean	3.797966e+02
##	variance	2.890233e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.721496e+02
##	variance	8.242398e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.111105e+02
##	variance	4.820166e+03
##	var 13:	1 100014 :00
##	best	1.193314e+02 1.254906e+02
##	mean	112010000 02
##	variance	1.969461e+03
##	var 14:	C 011077-100
##	best	6.011877e+02 5.348966e+02
##	meanvariance	1.594364e+04
##	var 15:	1.0943046+04
##	1	1.328365e+02
##	mean	1.692945e+02
##	variance	4.731278e+03
##	var 16:	1.7012700.00
##	best	1.633113e+02
##	mean	1.525564e+02
##	variance	7.315073e+03
##	var 17:	, , , , , , , , , , , , , , , , , , , ,
##	best	8.877037e+02
##	mean	8.897480e+02
##	variance	7.831289e+03
	var 18:	
##	best	9.444495e+02
##	mean	9.065803e+02
##	variance	8.246866e+03
##	var 19:	
##	best	9.311189e+02
##	mean	7.263261e+02
##	variance	8.448649e+04
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	
##	${\tt variance}$	1.790794e+04
##	var 21:	
##	best	
##	\mathtt{mean}	4.662232e+02

##	variance	2.672055e+03
##	var 22:	
##	best	8.536062e+02
##	mean	8.458812e+02
##	variance	6.806240e+02
##	var 23:	
##	best	3.934359e+02
##	mean	4.218495e+02
##	variance	6.789299e+03
##	var 24:	
##	best	1.891909e+01
##	mean	3.283433e+01
##	variance	2.255123e+03
##	var 25:	
##	best	9.166215e+02
##	mean	7.783396e+02
##	variance	3.799116e+04
##	var 26:	
##	best	2.851533e+02
##	mean	2.985911e+02
##	variance	6.833714e+03
##	var 27:	
##	best	4.532059e+02
##	mean	4.381638e+02
##	variance	1.114652e+04
##	var 28:	
##	best	2.436413e+02
##	mean	2.540817e+02
##	variance	4.865234e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.113156e+02
##	variance	6.036731e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.577503e+02
##	variance	6.567306e+03
##	var 31:	
##	best	4.710553e+02
##		4.724327e+02
##	variance	3.583761e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.666299e+02
##	variance	2.474108e+03
##	var 33:	
##	best	3.763827e+02
##	mean	4.035952e+02
##	variance	7.910690e+03
##	var 34:	
##		9.670946e+01
##		1.288475e+02
##	variance	8.732304e+03
##	var 35:	3.7.020010.00
пπ	vai oo.	

```
## best..... 7.930334e+02
## mean..... 7.512771e+02
## variance..... 6.704535e+03
## var 36:
## best..... 4.871291e+01
## mean..... 7.653321e+01
## variance..... 1.189929e+04
## var 37:
## best..... 3.919096e+02
## mean..... 3.769915e+02
## variance..... 3.031376e+03
## var 38:
## best..... 3.230480e+02
## mean..... 4.432061e+02
## variance..... 3.239728e+04
## var 39:
## best..... 5.350388e+02
## mean..... 4.486106e+02
## variance..... 2.527178e+04
## var 40:
## best..... 5.069983e+02
## mean..... 4.423842e+02
## variance..... 1.355862e+04
## var 41:
## best..... 1.670743e+02
## mean..... 1.831910e+02
## variance..... 4.029728e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.103090e+02
## variance..... 4.727750e+03
## var 43:
## best..... 5.865530e+02
## mean..... 6.331219e+02
## variance..... 6.219266e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.821114e+02
## variance..... 1.239487e+04
## var 45:
## best..... 7.366138e+02
## mean..... 7.385418e+02
## variance..... 4.811064e+03
##
## GENERATION: 8
## Lexical Fit..... 3.096860e-09 1.354309e-07 3.349978e-04 5.236037e-03 5.994391e-03 1.632592e-02
## #unique...... 61, #Total UniqueCount: 663
## var 1:
## best..... 8.240461e+02
## mean..... 8.197967e+02
## variance..... 3.661075e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.240289e+02
```

## variance	4.045757e+03
## var 3:	
## best	6.326810e+02
## mean	6.174055e+02
## variance	3.114261e+03
## var 4:	
## best	4.596208e+02
## mean	4.871118e+02
## variance	1.459872e+04
## var 5:	
## best	4.995327e+01
## mean	7.732923e+01
## variance	9.609153e+03
## var 6:	
## best	1.994509e+02
## mean	2.024361e+02
## variance	2.668322e+03
## var 7:	
## best	1.604937e+02
## mean	1.914334e+02
## variance	1.188040e+04
## var 8:	1.1000100 01
## best	6.699284e+02
## mean	6.556911e+02
## variance	2.836392e+03
## var 9:	2.0000020.00
## best	9.497919e+02
## mean	9.015513e+02
## variance	2.352454e+04
## var 10:	2.0021010.01
## best	3.713717e+02
## mean	3.736558e+02
## wariance	4.698764e+03
## var 11:	4.0307046.03
## best	7.781697e+02
## mean	7.781097e102 7.729044e+02
## wariance	2.430602e+03
## var 12:	2.4300020+03
## vai 12. ## best	6.113928e+02
## mean	
	1.2/120/e+03
	1 102211-102
## best	1.193314e+02 1.232364e+02
## mean	
## variance	1.337817e+03
## var 14:	0.044077
## best	
## mean	
## variance	5.867555e+03
## var 15:	
	1.328365e+02
## mean	
## variance	3.630868e+03
## var 16:	

##	best	1.633113e+02
##	mean	1.800893e+02
##	variance	7.208721e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.640029e+02
##	variance	1.151953e+04
##	var 18:	
##	best	9.444495e+02
##	mean	9.269555e+02
##	variance	3.894510e+03
##	var 19:	0.0040100.00
##	best	9.311189e+02
##	mean	8.838531e+02
##	variance	2.804370e+04
##	var 20:	2.0040700704
##	best	1.402471e+01
##	mean	3.643758e+01
##	variance	5.780116e+03
##	var 21:	0.7001100.00
##	best	4.709105e+02
##	mean	4.659175e+02
##	variance	1.724049e+03
##	var 22:	1.7240436103
##	best	8.536062e+02
##	mean	8.430262e+02
##	variance	3.826623e+03
##	var 23:	0.0200200.00
##	best	3.934359e+02
##	mean	3.916954e+02
##	variance	1.180755e+03
##	var 24:	1.100/000/00
##	best	1.891909e+01
##	mean	3.752265e+01
##	variance	5.779495e+03
##	var 25:	0.7754500.00
##	1	9.166215e+02
	mean	
##		
	var 26:	1.1100406104
	best	2.851533e+02
##	mean	
	variance	
##		0.000001e.00
##	best	4.532059e+02
##	mean	
##	variance	
##	var 28:	11 1000.00
##	best	2.436413e+02
##	mean	
##	variance	
##	var 29:	0.001 4026102
##	best	4.030825e+02
##	mean	
σ π		1.0100106102

##	variance	4.495162e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.483208e+02
##	variance	8.963055e+03
##	var 31:	
##	best	4.710553e+02
##	\mathtt{mean}	4.728865e+02
##	variance	1.788400e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.835977e+02
##	variance	8.766151e+02
##	var 33:	
##	best	3.763827e+02
##	\mathtt{mean}	3.860635e+02
##	variance	2.973871e+03
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.111025e+02
##	variance	5.830549e+03
##	var 35:	
##	best	7.930334e+02
##	mean	7.829715e+02
##	variance	1.050761e+03
##	var 36:	
##	best	4.871291e+01
##	mean	6.137443e+01
##	variance	3.526016e+03
##	var 37:	0.04000000
##	best	3.919096e+02
##	mean	3.892828e+02
##	variance	2.201146e+03
##	var 38:	3.230480e+02
##	best	3.454366e+02
##	meanvariance	1.413616e+04
##	var 39:	1.4130100+04
##	best	E 3E03880±03
##	mean	
##	variance	
##	var 40:	1.2134026103
##	best	5 0699836+02
##	mean	
##	variance	
##	var 41:	4.0010000.00
##		1.670743e+02
##	mean	
##	variance	
##	var 42:	5.100100e100
##	best	2.038571e+02
##	mean	
##	variance	
##	var 43:	

```
## best..... 5.865530e+02
## mean..... 5.959087e+02
## variance..... 1.995045e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.778112e+02
## variance..... 1.411993e+04
## var 45:
## best..... 7.366138e+02
## mean..... 7.415082e+02
## variance..... 1.089180e+03
##
## GENERATION: 9
## Lexical Fit..... 6.003753e-09 1.990021e-07 4.665260e-04 6.350776e-03 6.881776e-03 1.571646e-02
## #unique...... 63, #Total UniqueCount: 726
## var 1:
## best..... 8.240461e+02
## mean..... 8.034749e+02
## variance..... 8.438410e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.223456e+02
## variance..... 6.722232e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.243067e+02
## variance..... 8.832207e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.718169e+02
## variance..... 1.772807e+03
## var 5:
## best..... 4.995327e+01
## mean..... 5.756327e+01
## variance..... 1.406876e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.121104e+02
## variance..... 4.026981e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.756414e+02
## variance..... 4.026911e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.642420e+02
## variance..... 1.735909e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.266128e+02
## variance..... 1.136328e+04
## var 10:
## best..... 3.713717e+02
## mean..... 3.765324e+02
```

## va:	riance	 2.69160	8e+03
## vai	r 11:		
## bes	st	 7.78169	7e+02
## mea	an	 7.68430	8e+02
## vai	riance	 4.22857	'3e+03
## vai	r 12:		
## bes	st	 6.11392	28e+02
## mea	an	 6.02307	'2e+02
## vai	riance	 3.11163	33e+03
## vai	r 13:		
## bes	st	 1.19331	4e+02
## mea	an	 1.43178	3e+02
## vai	riance	 1.51081	.7e+04
## vai	r 14:		
## bes	st	 6.01187	7e+02
## mea	an	 5.92306	60e+02
## vai	riance	 3.28081	2e+03
## vai	r 15:		
## bes	st	 1.32836	S5e+02
## mea	an	 1.43103	31e+02
## vai	riance	 3.76088	35e+03
## va:	r 16:		
## bes	st	 1.63311	3e+02
## mea	an	 1.87731	9e+02
## vai	riance	 9.49282	22e+03
## va:	r 17:		
## bes	st	 8.87703	37e+02
## mea	an	 8.65671	0e+02
## va:	riance	 6.52000	1e+03
## va:	r 18:		
## bes	st	 9.44449	5e+02
## mea	an	 9.17976	66e+02
## va:	riance	 1.14809	6e+04
## va:	r 19:		
## bes	st	 9.31118	39e+02
## mea	an	 9.14699	0e+02
## va:	riance	 5.20015	9e+03
## va:	r 20:		
## bes	st	 1.40247	1e+01
## mea	an	 4.36014	ł7e+01
## va:	riance	 1.16401	.6e+04
## va:	r 21:		
## bes	st	 4.70910)5e+02
## mea	an	 4.69872	21e+02
## va:	riance	 1.07417	1e+03
## va:	r 22:		
## bes	st	 8.53606	S2e+02
## mea	an	 8.33175	4e+02
## vai	riance	 8.80371	.7e+03
## vai			
	st	 3.93435	9e+02
	an		
	riance	2.28849	
## vai			

##	best	1.891909e+01
##	\mathtt{mean}	5.488718e+01
##	variance	1.252101e+04
##	var 25:	
##	best	9.166215e+02
##	\mathtt{mean}	9.101563e+02
##	variance	6.831255e+02
##	var 26:	
##	best	2.851533e+02
##	\mathtt{mean}	3.007593e+02
##	variance	8.017820e+03
##	var 27:	
##	best	1.944866e+02
##	\mathtt{mean}	4.603113e+02
##	variance	5.810529e+03
##	var 28:	
##	best	2.436413e+02
##	\mathtt{mean}	2.501084e+02
##	variance	1.462102e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.099540e+02
##	variance	4.255769e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.449337e+02
##	variance	6.305705e+03
##	var 31:	4.710553e+02
##	best	4.710553e+02 4.615670e+02
##	meanvariance	2.386936e+03
##	variancevar 32:	2.3009300+03
##	best	1.878311e+02
##	mean	1.947564e+02
##	variance	2.943274e+03
##	var 33:	2.3432746103
##	best	3.763827e+02
##	mean	
##		
	var 34:	2.202000.00
##	best	9.670946e+01
##	mean	
	variance	
##	var 35:	
##	best	7.966563e+02
##	mean	
##	variance	
##	var 36:	
##	best	4.871291e+01
##	mean	
##	variance	9.089296e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.934210e+02

```
## variance..... 2.634367e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.402491e+02
## variance..... 5.498373e+03
## var 39:
## best..... 5.350388e+02
## mean..... 5.354532e+02
## variance..... 5.231284e+02
## var 40:
## best..... 5.069983e+02
## mean..... 5.120283e+02
## variance..... 2.548123e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.774824e+02
## variance..... 2.265953e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.109850e+02
## variance..... 2.608574e+03
## var 43:
## best..... 5.865530e+02
## mean..... 5.855664e+02
## variance..... 3.792938e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.947033e+02
## variance..... 3.666168e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.391464e+02
## variance..... 2.124326e+03
##
## GENERATION: 10
## Lexical Fit..... 7.522495e-08 9.125587e-07 2.218972e-03 4.325153e-03 1.503268e-02 2.044109e-02
## #unique...... 72, #Total UniqueCount: 798
## var 1:
## best..... 8.240461e+02
## mean..... 8.135501e+02
## variance..... 4.578537e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.274918e+02
## variance..... 5.637410e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.137545e+02
## variance..... 7.471387e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.581572e+02
## variance..... 1.949334e+03
## var 5:
```

##	best	4.995327e+01
##	\mathtt{mean}	6.416940e+01
##	variance	3.672736e+03
##	var 6:	
##	best	1.994509e+02
##	\mathtt{mean}	2.152774e+02
##	${\tt variance}$	6.977513e+03
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.705164e+02
##	variance	2.438147e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.648384e+02
##	variance	2.784269e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.225007e+02
##	${\tt variance}$	8.751076e+03
##	var 10:	
##	best	3.713717e+02
##	\mathtt{mean}	3.838035e+02
##	variance	4.257113e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.681789e+02
##	variance	2.758527e+03
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.147668e+02
##	variance	9.622408e+02
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.334901e+02
##	variance	5.679873e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	
##		1.077189e+03
##	var 15:	
##		1.328365e+02
##	\mathtt{mean}	1.498140e+02
##	variance	9.286161e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.824640e+02
##	variance	8.686482e+03
##	var 17:	
##	best	
##	\mathtt{mean}	
##		3.987132e+03
##	var 18:	
##	best	
##	mean	9.277592e+02

##	variance	4.169144e+03
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.061458e+02
##	variance	7.600037e+03
##	var 20:	
##	best	1.402471e+01
##	mean	3.306551e+01
##	variance	7.511332e+03
##	var 21:	4 700105-100
##	best	4.709105e+02 4.708226e+02
##	meanvariance	1.764416e+03
##	var 22:	1.7044100+03
##	best	8.536062e+02
##	mean	8.377480e+02
##	variance	6.222053e+03
##	var 23:	0.2220000.00
##	best	3.934359e+02
##	mean	3.982136e+02
##	variance	1.455597e+03
##	var 24:	
##	best	1.891909e+01
##	mean	5.203034e+01
##	variance	1.323278e+04
##	var 25:	
##	best	9.166215e+02
##	\mathtt{mean}	8.976621e+02
##	variance	7.095353e+03
##	var 26:	
##	best	2.851533e+02
##	mean	2.906075e+02
##	variance	1.749522e+03
##	var 27:	0.00470
##	best	3.002178e+01
##	mean	3.306881e+02
##	variance	2.451766e+04
##	var 28: best	0 4264120100
##	mean	
##	variance	
##	var 29:	4.5151506105
##	best	4.030825e+02
##	mean	
##	variance	
##	var 30:	
##	best	8.645341e+02
##	mean	
##	variance	
##	var 31:	
##	best	4.710553e+02
##	mean	4.765897e+02
##	variance	2.438907e+03
##	var 32:	

##	best	1.878311e+02
##	\mathtt{mean}	2.049099e+02
##	variance	5.960316e+03
##	var 33:	
##	best	3.763827e+02
##	\mathtt{mean}	3.801507e+02
##	variance	2.335213e+03
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.094232e+02
##	variance	3.053243e+03
##	var 35:	
##	best	7.989593e+02
##	\mathtt{mean}	7.967661e+02
##	variance	4.541916e+02
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	9.119235e+01
##	${\tt variance}$	2.265453e+04
##	var 37:	
##	best	3.919096e+02
##	\mathtt{mean}	3.928710e+02
##	variance	1.122693e+03
##	var 38:	
##	best	3.230480e+02
##	\mathtt{mean}	3.315301e+02
##	variance	1.266553e+03
##	var 39:	
##	best	5.350388e+02
##	mean	5.301328e+02
##	variance	3.794905e+03
##	var 40:	
##	best	5.069983e+02
##	mean	5.039438e+02
##	variance	2.642918e+03
##	var 41:	
##	best	1.670743e+02
##	mean	
##		3.904841e+03
	var 42:	0.000574
##	best	
##	mean	
	variance	1.888179e+03
##	var 43:	E 045500 165
##	best	
##	$\underset{\cdot}{\mathtt{mean}}.\dots\dots$	
##	variance	4.688883e+03
##	var 44:	0.000000
##	best	
##	mean	
##		3.065799e+03
##	var 45:	7 266420 :00
##	best	
##	mean	1.335816e+02

```
## variance..... 7.757450e+03
##
## GENERATION: 11
## Lexical Fit..... 7.886968e-08 1.312444e-06 2.218972e-03 3.461435e-03 1.343682e-02 1.925585e-02
## #unique...... 66, #Total UniqueCount: 864
## var 1:
## best..... 8.240461e+02
## mean..... 8.192192e+02
## variance..... 1.882423e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.268532e+02
## variance..... 9.380583e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.296422e+02
## variance..... 3.414709e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.672921e+02
## variance..... 3.544846e+03
## var 5:
## best..... 4.995327e+01
## mean..... 6.787288e+01
## variance..... 4.092779e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.031109e+02
## variance..... 1.522423e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.800581e+02
## variance..... 7.600354e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.748510e+02
## variance..... 1.568453e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.305279e+02
## variance..... 6.647265e+03
## var 10:
## best..... 3.713717e+02
## mean..... 3.736764e+02
## variance..... 1.957956e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.628381e+02
## variance..... 6.050391e+03
## var 12:
## best..... 6.113928e+02
## mean..... 6.082907e+02
## variance..... 1.879504e+03
## var 13:
```

##	best	1.193314e+02
##	$\mathtt{mean}.\dots$	1.339366e+02
##	variance	3.802499e+03
##	var 14:	
##	best	6.011877e+02
##	mean	6.017187e+02
##	variance	6.764870e+02
##	var 15:	
##	best	1.328365e+02
##	mean	1.514564e+02
##	variance	5.608252e+03
##	var 16:	0.0002020100
##	best	1.633113e+02
##		1.778698e+02
	mean	
##	variance	4.631722e+03
##	var 17:	0 077007 .00
##	best	8.877037e+02
##	mean	8.617172e+02
##	variance	1.258283e+04
##	var 18:	9.444495e+02
##	best	
##	mean	9.306040e+02
##	variance	4.250335e+03
##	var 19:	0.011100-100
##	best	9.311189e+02
##	mean	9.200445e+02
##	variance	4.439964e+03
##	var 20:	4 400454 .04
##	best	1.402471e+01
##	mean	2.581814e+01
##	variance	2.583242e+03
##	var 21:	4 700405 .00
##	best	4.709105e+02
##	mean	4.729329e+02
##	variance	4.755156e+03
##	var 22:	
##	best	4.807116e+01
	\mathtt{mean}	
	variance	1.409088e+04
	var 23:	
	best	
##	\mathtt{mean}	
	variance	3.546602e+03
##		
##	best	
##	\mathtt{mean}	
##	variance	3.377127e+03
##		
##	best	
##	\mathtt{mean}	
##		1.554568e+04
##		
##	best	
##	\mathtt{mean}	3.022526e+02

##	variance	7.146639e+03
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	1.226851e+02
##	variance	2.213737e+04
##	var 28:	
##	best	2.436413e+02
##	mean	2.457327e+02
##	variance	1.511531e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.083153e+02
##	variance	3.633278e+03
##	var 30:	0.045044
##	best	8.645341e+02
##	mean	8.347325e+02
##	variance	9.780434e+03
##	var 31:	4 710552-100
##	best	4.710553e+02 4.693782e+02
##	mean	4.693782e+02 1.051035e+03
##	variancevar 32:	1.0510556+05
##	best	1.878311e+02
##	mean	2.028482e+02
##	variance	5.385176e+03
##	var 33:	3.3031706703
##	best	3.763827e+02
##	mean	3.819718e+02
##	variance	3.536730e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.165617e+02
##	variance	4.283185e+03
##	var 35:	
##	best	7.989593e+02
##	\mathtt{mean}	7.892399e+02
##	variance	4.024407e+03
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	
##	variance	3.085594e+03
##	var 37:	
##	best	
##	\mathtt{mean}	
##	variance	3.379811e+03
##	var 38:	
##	best	
##	$\underset{\cdot}{\mathtt{mean}}.\dots\dots$	
##	variance	3.235156e+03
##	var 39:	E 050000 :00
##	best	
## ##	meanvariance	
##	variancevar 40:	J.JJU1ZDE+U3
##	val 40.	

```
## best..... 5.069983e+02
## mean..... 5.157247e+02
## variance..... 3.361237e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.923191e+02
## variance..... 1.062807e+04
## var 42:
## best..... 2.038571e+02
## mean..... 2.211344e+02
## variance..... 5.842862e+03
## var 43:
## best..... 5.865530e+02
## mean..... 5.864633e+02
## variance..... 1.754242e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.873835e+02
## variance..... 1.321769e+04
## var 45:
## best..... 7.366138e+02
## mean..... 7.285889e+02
## variance..... 6.141116e+03
## GENERATION: 12
## Lexical Fit..... 1.563035e-07 1.312444e-06 3.958329e-03 4.264410e-03 1.116792e-02 1.925585e-02
## #unique...... 60, #Total UniqueCount: 924
## var 1:
## best..... 8.240461e+02
## mean..... 8.110146e+02
## variance..... 3.189548e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.317063e+02
## variance..... 8.324284e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.213877e+02
## variance..... 5.232998e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.612380e+02
## variance..... 2.607698e+03
## var 5:
## best..... 4.995327e+01
## mean..... 5.768712e+01
## variance..... 9.690369e+02
## var 6:
## best..... 1.994509e+02
## mean..... 2.084802e+02
## variance..... 1.939615e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.825482e+02
```

##	variance	7.788669e+03
##	var 8:	
##	best	6.699284e+02
##	mean	6.732000e+02
##	variance	7.161570e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.253998e+02
##	variance	6.519032e+03
##	var 10:	
##	best	3.713717e+02
##	\mathtt{mean}	3.722564e+02
##	variance	4.707965e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.642298e+02
##	${\tt variance}$	5.977568e+03
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.041675e+02
##	variance	1.827498e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.298532e+02
##	variance	2.098007e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.990678e+02
##	variance	2.521774e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.433478e+02
##	variance	2.047100e+03
##	var 16:	4 000440 .00
##	best	1.633113e+02
##	mean	1.896074e+02
##	variance	1.128885e+04
##	var 17:	0 077027-100
##	best	8.877037e+02
##	mean	8.746166e+02 2.446623e+03
##	variance	2.446623e+03
##	var 18:	0 444405-100
## ##	best	9.444495e+02 9.091543e+02
##	variance	2.194200e+04
##	var 19:	2.1942000+04
##	best	9.311189e+02
##	mean	9.080461e+02
##	variance	9.358494e+03
##	variancevar 20:	₽.5504₽4ETU3
##	best	1.402471e+01
##	mean	3.820596e+01
##	variance	8.870524e+03
##	var 21:	J.0100246100
##	var Zr.	

##	best	4.709105e+02
##	\mathtt{mean}	4.718180e+02
##	variance	6.654028e+03
##	var 22:	
##	best	4.807116e+01
##	\mathtt{mean}	5.628318e+02
##	variance	1.281425e+05
##	var 23:	
##	best	3.934359e+02
##	\mathtt{mean}	3.970968e+02
##	variance	3.388436e+03
##	var 24:	
##	best	1.891909e+01
##	mean	4.053423e+01
##	variance	7.438096e+03
##	var 25:	
##	best	9.166215e+02
##	mean	8.969716e+02
##	variance	5.378973e+03
##	var 26:	0.054500
##	best	2.851533e+02
##	mean	2.985729e+02
##	variance	4.775011e+03
##	var 27:	2 000170-101
##	best	3.002178e+01 6.331052e+01
##	meanvariance	1.139231e+01
##	var 28:	1.1392316104
##	best	2.436413e+02
##	mean	2.596848e+02
##	variance	5.714502e+03
##	var 29:	0.1110020.00
##	best	4.030825e+02
##	mean	4.098891e+02
##	variance	1.467181e+03
##	var 30:	111011010
##	best	8.645341e+02
##	mean	
##		
##	var 31:	
##	best	4.710553e+02
##	mean	4.742685e+02
##	variance	2.564883e+03
##	var 32:	
##	best	
##	\mathtt{mean}	
##	variance	2.175250e+03
##	var 33:	
##	best	
##	\mathtt{mean}	
##		2.907817e+03
##		
##	best	
##	mean	1.25/843e+02

```
## variance..... 8.229244e+03
## var 35:
## best..... 1.635908e+02
## mean..... 7.750778e+02
## variance..... 1.046431e+04
## var 36:
## best..... 4.871291e+01
## mean..... 6.141457e+01
## variance..... 6.141337e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.857795e+02
## variance..... 1.613572e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.217565e+02
## variance..... 1.657581e+03
## var 39:
## best..... 5.350388e+02
## mean..... 5.333368e+02
## variance..... 2.844868e+03
## var 40:
## best..... 5.069983e+02
## mean..... 5.045017e+02
## variance..... 1.686417e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.830515e+02
## variance..... 5.125240e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.160194e+02
## variance..... 4.526185e+03
## var 43:
## best..... 5.865530e+02
## mean..... 5.870902e+02
## variance..... 1.274597e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.893061e+02
## variance..... 6.780972e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.289130e+02
## variance..... 2.225057e+03
##
## GENERATION: 13
## Lexical Fit..... 3.076929e-07 4.033200e-06 4.509630e-03 1.166051e-02 2.355862e-02 2.487761e-02
## #unique..... 64, #Total UniqueCount: 988
## var 1:
## best..... 8.240461e+02
## mean..... 8.054727e+02
## variance..... 5.419220e+03
## var 2:
```

##	best	1.080625e+02
##	\mathtt{mean}	1.352736e+02
##	variance	8.599850e+03
##	var 3:	
##	best	6.326810e+02
##	\mathtt{mean}	6.276207e+02
##	variance	2.617626e+03
##	var 4:	
##	best	4.596208e+02
##	\mathtt{mean}	4.542541e+02
##	variance	8.960101e+02
##	var 5:	
##	best	4.995327e+01
##	mean	6.966537e+01
##	variance	6.800525e+03
##	var 6:	
##	best	1.994509e+02
##	mean	2.156532e+02
##	variance	5.153653e+03
##	var 7:	
##	best	1.604937e+02
##	mean	1.791482e+02
##	variance	6.883858e+03
##	var 8:	
##	best	6.699284e+02
##	mean	6.642267e+02
##	variance	3.450899e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.363274e+02
##	variance	3.013379e+03
##	var 10:	
##	best	3.713717e+02
##	mean	3.798580e+02
##	variance	3.125727e+03
##	var 11:	0.120/2/0/00
##	best	7.781697e+02
##	mean	
##	variance	
##	var 12:	2.00000000000
##	best	6.113928e+02
##	mean	
##	variance	
##	var 13:	T.1111016,00
##		1.193314e+02
##	mean	
##	variance	
##	var 14:	0.0001000100
	best	6 0118770±00
##		
##	mean	6.003539e+02
## ##	meanvariance	6.003539e+02
## ## ##	meanvariancevar 15:	6.003539e+02 3.450775e+03
## ##	meanvariance	6.003539e+02 3.450775e+03 1.328365e+02

## variance	1.070765e+04
## var 16:	
## best	1.633113e+02
## mean	1.678217e+02
## variance	2.701100e+03
## var 17:	
## best	8.877037e+02
## mean	8.682781e+02
## variance	5.759277e+03
## var 18:	
## best	9.444495e+02
## mean	9.131556e+02
## variance	1.288084e+04
## var 19:	
## best	9.311189e+02
## mean	9.100245e+02
## variance	1.265357e+04
## var 20:	
## best	1.402471e+01
## mean	2.988345e+01
## variance	3.137505e+03
## var 21:	
## best	4.709105e+02
## mean	4.750372e+02
## variance	1.611883e+03
## var 22:	
## best	4.807116e+01
## mean	2.824947e+02
## variance	1.098094e+05
## var 23:	
## best	3.934359e+02
## mean	3.941200e+02
## variance	1.954672e+03
## var 24:	
## best	1.891909e+01
## mean	3.830708e+01
## variance	6.523001e+03
## var 25:	
## best	9.166215e+02
## mean	8.971033e+02
## variance	6.764117e+03
## var 26:	
## best	2.851533e+02
## mean	3.053167e+02
## variance	5.651562e+03
## var 27:	
## best	3.002178e+01
## mean	
## variance	
## var 28:	
## best	2.436413e+02
## mean	
## variance	
## var 29:	
· · ·	

##	best	4.030825e+02
##	\mathtt{mean}	4.099783e+02
##	variance	3.185090e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.395563e+02
##	variance	5.627692e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	4.696882e+02
##	variance	5.143810e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.933277e+02
##	variance	1.054470e+03
##	var 33:	
##	best	3.948430e+02
##	mean	3.810210e+02
##	variance	2.075378e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.098149e+02
##	variance	3.497366e+03
##	var 35:	1.635908e+02
##	mean	4.151541e+02
##	variance	9.093137e+04
##	var 36:	3.0301010.04
##	best	4.871291e+01
##	mean	5.608785e+01
##	variance	9.326952e+02
##	var 37:	
##	best	3.919096e+02
##	mean	4.033898e+02
##	variance	2.589210e+03
##	var 38:	
##	best	3.230480e+02
##	mean	3.271845e+02
##	variance	8.932852e+02
##	var 39:	
##	best	5.350388e+02
##	\mathtt{mean}	
##	variance	2.082034e+03
##	var 40:	
##		1.481206e+02
##	\mathtt{mean}	
##		3.163257e+03
##	var 41:	4 000000
##		1.670743e+02
##	$\underset{\cdot}{\mathtt{mean}}.\dots\dots$	
##		5.124405e+03
##		0 020574-+00
##	best	
##	mean	Z.11Z3856+0Z

```
## variance..... 3.119497e+03
## var 43:
## best..... 3.092410e+02
## mean..... 5.672863e+02
## variance..... 6.125506e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.930656e+02
## variance..... 5.662616e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.324999e+02
## variance..... 1.268345e+03
##
## GENERATION: 14
## Lexical Fit..... 4.039826e-07 3.820847e-06 9.716536e-03 1.503268e-02 2.450731e-02 2.485274e-02
## #unique...... 66, #Total UniqueCount: 1054
## var 1:
## best..... 8.240461e+02
## mean..... 8.180734e+02
## variance..... 1.826426e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.230484e+02
## variance..... 7.710789e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.368574e+02
## variance..... 5.177877e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.509609e+02
## variance..... 2.040173e+03
## var 5:
## best..... 4.995327e+01
## mean..... 6.455024e+01
## variance..... 7.681078e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.000290e+02
## variance..... 4.077276e+02
## var 7:
## best..... 1.604937e+02
## mean..... 1.733368e+02
## variance..... 3.522211e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.699426e+02
## variance..... 1.125857e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.442418e+02
## variance..... 1.512694e+03
## var 10:
```

##	best	3.713717e+02
##	\mathtt{mean}	3.791242e+02
##	variance	2.712665e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.672662e+02
##	variance	5.180486e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.078647e+02
##	variance	2.217594e+03
##	var 13:	2.21,0010.00
##	best	1.193314e+02
##		1.262254e+02
##	mean	1.356507e+03
	variance	1.3303076+03
##	var 14:	6 011077-100
##	best	6.011877e+02
##	mean	6.032546e+02
##	variance	8.303152e+02
##	var 15:	1 200265 :00
##	best	1.328365e+02
##	mean	1.465099e+02
##	variance	4.582324e+03
##	var 16:	1 (22112-100
##	best	1.633113e+02
##	mean	1.707323e+02
##	variance	2.045360e+03
##	var 17:	0 077027-100
##	best	8.877037e+02
##	mean	8.721019e+02
##	variancevar 18:	3.277214e+03
##		0 444405-100
	best	9.444495e+02 9.288937e+02
##	mean	
##	variancevar 19:	4.790605e+03
		0.211100-100
##	best	9.311189e+02
	mean	
	variance	1.877332e+04
	var 20:	1 400474 - 104
	best	
##		
	variance	7.438945e+03
	var 21:	4 700405 :00
##		
##		
	variance	2.313608e+03
##		4 007440
##		
##		
	variance	4.090493e+04
##		0.0040==
##	best	
##	\mathtt{mean}	3.965319e+02

3.183005e+03
1.891909e+01
5.775231e+01
2.084615e+04
9.166215e+02
9.063980e+02
1.812802e+03
2.851533e+02
2.955452e+02
6.645706e+03
3.002178e+01
5.817168e+01
1.178049e+04
2.436413e+02
2.574209e+02
6.320354e+03
4.030825e+02
4.091203e+02
2.050055e+03
8.645341e+02
8.425736e+02
8.480320e+03
8.645241e+02
6.454424e+02
3.762357e+04
1.878311e+02
1.941745e+02
2.343464e+03
3.948430e+02
3.877619e+02
7.874861e+02
0.00000
9.670946e+01
1.271995e+02
1.407706e+04
1.635908e+02
2.088177e+02
2.671039e+04
4.871291e+01
8.494790e+01
1.874837e+04

```
## best..... 3.919096e+02
## mean..... 4.081969e+02
## variance..... 4.063002e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.294450e+02
## variance..... 3.048080e+03
## var 39:
## best..... 5.350388e+02
## mean..... 5.352951e+02
## variance..... 1.517178e+03
## var 40:
## best..... 1.481206e+02
## mean..... 3.420312e+02
## variance..... 3.128525e+04
## var 41:
## best..... 1.670743e+02
## mean..... 1.821179e+02
## variance..... 3.296275e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.285895e+02
## variance..... 1.044058e+04
## var 43:
## best..... 1.983163e+02
## mean..... 4.576934e+02
## variance..... 2.273040e+04
## var 44:
## best..... 9.090666e+02
## mean..... 8.992597e+02
## variance..... 1.507288e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.201686e+02
## variance..... 6.038585e+03
## GENERATION: 15
## Lexical Fit..... 6.278100e-07 5.543594e-06 5.018034e-03 1.503268e-02 2.280732e-02 2.487761e-02
## #unique..... 57, #Total UniqueCount: 1111
## var 1:
## best..... 8.240461e+02
## mean..... 8.162872e+02
## variance..... 1.079218e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.204441e+02
## variance..... 2.721193e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.341528e+02
## variance..... 1.631565e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.606853e+02
```

##	variance	1.326083e+03
##	var 5:	
##	best	4.995327e+01
##	mean	6.374977e+01
##	variance	3.483898e+03
##	var 6:	
##	best	1.994509e+02
##	mean	2.015131e+02
##	variance	4.045325e+02
##	var 7:	
##	best	1.604937e+02
##	mean	1.672942e+02
##	variance	1.641793e+03
##	var 8:	
##	best	6.699284e+02
##	mean	6.680711e+02
##	variance	5.730935e+02
##	var 9:	
##	best	9.497919e+02
##	mean	9.362055e+02
##	variance	4.096008e+03
##	var 10:	
##	best	3.713717e+02
##	mean	3.818626e+02
##	variance	4.684050e+03
##	var 11:	7 701 007 .00
##	best	7.781697e+02
##	mean	7.675239e+02
##	variance	2.546094e+03
##	var 12:	6 448000 :00
##	best	6.113928e+02
##	mean	6.085138e+02
##	variance	2.891915e+03
##	var 13:	1 102211-100
##	best	1.193314e+02 1.268542e+02
##	mean	1.268542e+02 1.588946e+03
	variancevar 14:	1.5889466+03
##	best	6 0110770100
## ##	mean	
##	variance	
##	variancevar 15:	1.592612e+02
##	best	1 220265
##	mean	
##	variance	
##	var 16:	1.1414076.00
##	best	1 6331136+02
##	mean	
##	variance	
##	var 17:	, , 114,006,00
##	best	8.877037e+02
##	mean	
##	variance	
##	var 18:	

##	best	9.444495e+02
##	\mathtt{mean}	9.342377e+02
##	variance	1.927053e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.047519e+02
##	variance	8.375376e+03
##	var 20:	
##	best	1.402471e+01
##	mean	2.463830e+01
##	variance	1.748692e+03
##	var 21:	1.7400926+03
		4 700105 - 100
##	best	4.709105e+02
##	mean	4.794867e+02
##	variance	3.079693e+03
##	var 22:	
##	best	4.807116e+01
##	\mathtt{mean}	6.708206e+01
##	${\tt variance}$	7.592075e+03
##	var 23:	
##	best	3.934359e+02
##	mean	3.940714e+02
##	variance	2.380011e+03
##	var 24:	
##	best	1.891909e+01
##	mean	3.009246e+01
##	variance	2.415135e+03
##	var 25:	2.1101000.00
##	best	9.166215e+02
##	mean	9.067259e+02
##	variance	3.199389e+03
		3.1993096+03
##	var 26:	0 054500 .00
##	best	2.851533e+02
##	mean	2.922234e+02
##	variance	3.756253e+03
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	
##		6.602192e+03
##	var 28:	
##	best	
##	mean	2.473250e+02
##	variance	1.260488e+03
##	var 29:	
##	best	4.030825e+02
##	mean	
##	variance	
##	var 30:	_,00_000.00
##	best	8 6453416+02
##	mean	
##		5.0519//6+03
##		0 645041-100
##	best	
##	\mathtt{mean}	8.186351e+02

##	variance	1.619670e+04
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.984539e+02
##	variance	2.166250e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.963037e+02
##	variance	1.407352e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.046195e+02
##	variance	2.965188e+03
##	var 35:	
##	best	1.635908e+02
##	mean	1.802849e+02
##	variance	3.449796e+03
##	var 36:	
##	best	4.871291e+01
##	mean	6.208550e+01
##	variance	3.121232e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.917816e+02
##	variance	1.392361e+03
##	var 38:	0.000400 .00
##	best	3.230480e+02
##	mean	3.222245e+02
##	variance	1.906100e+03
##	var 39:	F 050000 :00
##	best	5.350388e+02
##	mean	5.322943e+02
##	variance	2.045387e+03
##	var 40:	1 401006-100
##	best	1.481206e+02 1.907528e+02
##	mean	
##	variance	1.354742e+04
##	var 41:	1 670742-100
##	best	
##	variance	
##	variance	2.481525e+03
##	best	0 020571
##	mean	
##	variance	
##	var 43:	0.1201256+02
##	best	2 4507670±02
##	mean	
##	wariance	
##	variancevar 44:	1.0020926+04
##	best	9 0906665+02
##	mean	
##	variance	
##	var 45:	1.00.2100.00
	•	

```
## best..... 7.366138e+02
## mean..... 7.317899e+02
## variance..... 1.882202e+03
##
## GENERATION: 16
## Lexical Fit..... 6.278100e-07 5.543594e-06 5.018034e-03 1.503268e-02 2.280732e-02 2.487761e-02
## #unique...... 70, #Total UniqueCount: 1181
## var 1:
## best..... 8.240461e+02
## mean..... 8.119154e+02
## variance..... 3.125166e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.280813e+02
## variance..... 8.215285e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.301901e+02
## variance..... 2.255986e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.551797e+02
## variance..... 2.587231e+03
## var 5:
## best..... 4.995327e+01
## mean..... 7.886914e+01
## variance..... 9.632035e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.176879e+02
## variance..... 6.452445e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.769069e+02
## variance..... 2.880149e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.649174e+02
## variance..... 7.359386e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.307875e+02
## variance..... 4.388359e+03
## var 10:
## best..... 3.713717e+02
## mean..... 3.724743e+02
## variance..... 1.028953e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.569320e+02
## variance..... 6.025474e+03
## var 12:
## best..... 6.113928e+02
## mean..... 6.087023e+02
```

##	variance	1.255112e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.340124e+02
##	variance	4.633501e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	5.956219e+02
##	variance	4.313728e+03
##	var 15:	
##	best	1.328365e+02
##	\mathtt{mean}	1.468100e+02
##	variance	6.705510e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.806429e+02
##	variance	4.736036e+03
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.764093e+02
##	variance	5.557714e+03
##	var 18:	
##	best	9.444495e+02
##	\mathtt{mean}	9.202480e+02
##	variance	1.094444e+04
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.045738e+02
##	variance	1.008013e+04
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.889842e+01
##	variance	2.514795e+03
##	var 21:	
##	best	4.709105e+02
##	mean	4.819949e+02
##	variance	3.329856e+03
##	var 22:	
##	best	
##	\mathtt{mean}	
##	variance	4.504620e+03
##	var 23:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	2.291782e+03
##	var 24:	
##	best	
##	mean	
##	variance	8.154838e+03
##	var 25:	
##	best	
##	mean	
##	variance	2.511450e+02
##	var 26:	

##	best	2.851533e+02
##	\mathtt{mean}	3.015819e+02
##	variance	1.078912e+04
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	5.143497e+01
##	${\tt variance}$	3.099176e+03
##	var 28:	
##	best	2.436413e+02
##	\mathtt{mean}	2.655238e+02
##	${\tt variance}$	9.177358e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.111618e+02
##	${\tt variance}$	3.058320e+03
##	var 30:	
##	\mathtt{best}	8.645341e+02
##	\mathtt{mean}	8.552097e+02
##	${\tt variance}$	1.313569e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.455310e+02
##	${\tt variance}$	5.958464e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.921459e+02
##	variance	8.402219e+02
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	4.128091e+02
##	variance	4.955252e+03
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.033208e+02
##	variance	1.044634e+03
##	var 35:	
##	best	1.635908e+02
##	${\tt mean}$	
##		2.337136e+03
	var 36:	
##	best	
##	\mathtt{mean}	
	${\tt variance}$	1.092543e+04
##	var 37:	
##	best	
##	\mathtt{mean}	
##	variance	1.977872e+03
##	var 38:	
##	best	
##	\mathtt{mean}	
##	variance	1.526570e+03
##	var 39:	
##	best	
##	\mathtt{mean}	5.338013e+02

```
## variance..... 1.974104e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.711132e+02
## variance..... 7.536097e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.895548e+02
## variance..... 5.815526e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.139732e+02
## variance..... 2.770191e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.403163e+02
## variance..... 4.525802e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.896562e+02
## variance..... 4.690780e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.225698e+02
## variance..... 3.206290e+03
## GENERATION: 17
## Lexical Fit..... 2.624366e-06 1.221116e-05 3.635369e-03 3.099098e-02 3.099098e-02 3.662785e-02
## #unique...... 70, #Total UniqueCount: 1251
## var 1:
## best..... 8.240461e+02
## mean..... 8.070683e+02
## variance..... 4.618670e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.283641e+02
## variance..... 9.871210e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.252039e+02
## variance..... 1.810181e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.570441e+02
## variance..... 3.395514e+03
## var 5:
## best..... 4.995327e+01
## mean.... 6.622813e+01
## variance..... 4.716981e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.065546e+02
## variance..... 2.732502e+03
## var 7:
```

##	best	1.604937e+02
##	\mathtt{mean}	1.799062e+02
##	variance	5.070348e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.658578e+02
##	variance	6.798972e+02
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.270441e+02
##	variance	1.130370e+04
##	var 10:	
##	best	3.713717e+02
##	mean	3.762219e+02
##	variance	9.713730e+02
##	var 11:	
##	best	7.781697e+02
##	mean	7.601214e+02
##	variance	8.555075e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.029390e+02
##	variance	2.597868e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.454481e+02
##	variance	1.025128e+04
##	var 14:	
##	best	6.011877e+02
##	mean	6.034198e+02
##	variance	2.291475e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.359450e+02
##	variance	6.899606e+02
##	var 16:	0.0000000
##	best	1.633113e+02
##	mean	1.747124e+02
##		
	var 17:	
##	best	8.877037e+02
##	mean	
	variance	
##	var 18:	2.000.000.00
##		9.444495e+02
##	mean	
##	variance	
##	var 19:	02 1007 0 . 00
##	best	9.311189e+02
##	mean	
##		
##	var 20:	1.2000216102
##	best	1.402471e+01
##	mean	
пπ	mcan	0.0010016.01

## variance	5.898746e+03
## var 21:	
## best	4.709105e+02
## mean	4.682507e+02
## variance	9.499110e+02
## var 22:	
## best	4.807116e+01
## mean	6.146369e+01
## variance	1.446941e+03
## var 23:	
## best	3.934359e+02
## mean	3.995400e+02
## variance	9.861251e+02
## var 24:	
## best	1.891909e+01
## mean	4.194902e+01
## variance	1.064708e+04
## var 25:	
## best	9.166215e+02
## mean	9.075629e+02
## variance	3.072845e+03
## var 26:	0.0120100.00
## best	2.292040e+01
## mean	2.936210e+02
## wariance	4.961958e+03
## variance	4.9019300+03
	3.002178e+01
	5.816722e+01
## mean	
## variance	1.133126e+04
## var 28:	0.40044000
## best	2.436413e+02
## mean	2.509832e+02
## variance	1.995443e+03
## var 29:	
## best	4.030825e+02
## mean	4.007611e+02
## variance	3.750598e+03
## var 30:	
## best	8.645341e+02
## mean	8.517642e+02
## variance	2.211734e+03
## var 31:	
## best	8.645241e+02
## mean	8.524552e+02
## variance	4.080665e+03
## var 32:	
## best	1.878311e+02
## mean	
## variance	
## var 33:	5.1010110.00
## best	3 948430=+02
## mean	
## wariance	
## variance ## var 34:	1.2000000100
## Val 34:	

```
## best..... 9.670946e+01
## mean..... 1.191418e+02
## variance..... 8.232131e+03
## var 35:
## best..... 1.635908e+02
## mean..... 1.742273e+02
## variance..... 4.027696e+03
## var 36:
## best..... 4.871291e+01
## mean.... 6.735486e+01
## variance..... 4.504790e+03
## var 37:
## best..... 3.919096e+02
## mean..... 4.008983e+02
## variance..... 2.843089e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.278371e+02
## variance..... 2.540200e+03
## var 39:
## best..... 5.350388e+02
## mean..... 5.363757e+02
## variance..... 2.654582e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.579432e+02
## variance..... 2.177451e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.748441e+02
## variance..... 2.158764e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.148975e+02
## variance..... 3.235834e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.586065e+02
## variance..... 6.953233e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.988841e+02
## variance..... 1.418874e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.340917e+02
## variance..... 8.042039e+02
##
## GENERATION: 18
## Lexical Fit..... 2.624366e-06 1.221116e-05 3.635369e-03 3.099098e-02 3.099098e-02 3.662785e-02
## #unique...... 62, #Total UniqueCount: 1313
## var 1:
## best..... 8.240461e+02
## mean..... 8.122176e+02
```

##	variance	3.736936e+03
##	var 2:	
##	best	1.080625e+02
##	mean	1.267614e+02
##	variance	1.426556e+03
##	var 3:	
##	best	6.326810e+02
##	mean	6.252613e+02
##	variance	1.835165e+03
##	var 4:	
##	best	4.596208e+02
##	mean	4.591977e+02
##	variance	2.066394e+03
##	var 5:	
##	best	4.995327e+01
##	mean	5.572041e+01
##	variance	3.353976e+03
##	var 6:	
##	best	1.994509e+02
##	\mathtt{mean}	2.199956e+02
##	variance	4.178531e+03
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.804174e+02
##	variance	9.797287e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.699460e+02
##	variance	1.035951e+02
##	var 9:	
##	best	9.497919e+02
##	mean	9.351025e+02
##	variance	2.318911e+03
##	var 10:	
##	best	3.713717e+02
##	mean	3.773298e+02
##	variance	1.423182e+03
##	var 11:	
##	best	
##	mean	
##	variance	3.457094e+03
##	var 12:	
##	best	
##	mean	
##	variance	1.421449e+03
##	var 13:	
##		1.193314e+02
##	mean	
##	variance	6.094378e+03
##	var 14:	0.0446
##	best	
##	mean	
##	variance	2.855894e+03
##	var 15:	

##	best	1.328365e+02
##	mean	1.502302e+02
##	variance	4.849210e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.719965e+02
##	${\tt variance}$	1.411816e+03
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.732258e+02
##	${\tt variance}$	4.121339e+03
##	var 18:	
##	best	9.444495e+02
##	\mathtt{mean}	9.234527e+02
##	variance	8.436534e+03
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.188431e+02
##	variance	2.638232e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	3.238802e+01
##	variance	5.879928e+03
##	var 21:	
##	best	4.709105e+02
##	mean	4.783506e+02
##	variance	7.843013e+02
##	var 22:	
##	best	4.807116e+01
##	mean	6.848229e+01
##	variance	8.304244e+03
##	var 23:	0.004050 .00
##	best	3.934359e+02
##	mean	4.037557e+02
##	variance	1.553666e+03
##	var 24:	1 001000-101
##	best	1.891909e+01
##		
##		1.3402310+03
##	best	0 1660150±00
##	mean	
	variance	
##	var 26:	3.0412756+03
##	best	2 292040a+01
##	mean	
##	variance	
##	var 27:	1.1020106:04
##	best	3.002178e+01
##	mean	
##	variance	
##	var 28:	0110.04
##	best	2.436413e+02
##	mean	

##	variance	6.685470e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.116234e+02
##	variance	3.606588e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.486155e+02
##	variance	3.039174e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.427084e+02
##	variance	8.025736e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.996626e+02
##	variance	3.255189e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.954528e+02
##	variance	4.634583e+02
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.091970e+02
##	variance	2.052335e+03
##	var 35:	
##	best	1.635908e+02
##	\mathtt{mean}	1.756124e+02
##	variance	4.032123e+03
##	var 36:	
##	best	4.871291e+01
##	mean	5.224271e+01
##	variance	6.595160e+02
##	var 37:	
##	best	3.919096e+02
##	mean	4.029636e+02
##	variance	2.458210e+03
##	var 38:	
##	best	
##	mean	
##	variance	2.793777e+03
##	var 39:	
##	best	
##	mean	
##	variance	3.147420e+03
##	var 40:	
##	best	
##	mean	
##	variance	8.011136e+03
##	var 41:	1 00000
##	best	
##	$\underset{\cdot}{\mathtt{mean}}$	
##	variance	2.009254e+03
##	var 42:	

```
## best..... 2.038571e+02
## mean..... 2.166713e+02
## variance..... 3.052928e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.499060e+02
## variance..... 1.448924e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.968191e+02
## variance..... 2.367979e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.314357e+02
## variance..... 9.226568e+02
##
## GENERATION: 19
## Lexical Fit..... 2.921564e-06 1.653168e-05 3.300819e-03 3.099098e-02 3.099098e-02 3.662785e-02
## #unique..... 67, #Total UniqueCount: 1380
## var 1:
## best..... 8.240461e+02
## mean..... 8.148096e+02
## variance..... 1.811593e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.281741e+02
## variance..... 6.811191e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.192864e+02
## variance..... 4.652235e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.681643e+02
## variance..... 1.849576e+03
## var 5:
## best..... 4.995327e+01
## mean..... 6.418204e+01
## variance..... 3.843805e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.184914e+02
## variance..... 4.814394e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.613751e+02
## variance..... 3.564366e+02
## var 8:
## best..... 6.699284e+02
## mean..... 6.629292e+02
## variance..... 3.772031e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.336818e+02
```

##	variance	7.691247e+03
##	var 10:	
##	best	3.713717e+02
##	\mathtt{mean}	3.774090e+02
##	variance	4.750043e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.690748e+02
##	variance	3.407865e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.061935e+02
##	variance	3.115472e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.295054e+02
##	variance	3.668108e+03
##	var 14:	0.044077 :00
##	best	6.011877e+02
##	mean	5.987961e+02
##	variancevar 15:	7.969523e+02
##	best	1.328365e+02
##	mean	1.462529e+02
##	variance	5.929377e+03
##	variancevar 16:	5.9293116+03
##	best	1.633113e+02
##	mean	1.705928e+02
##	variance	1.407237e+03
##	var 17:	1.10/20/0/00
##	best	8.877037e+02
##	mean	8.725112e+02
##	variance	3.959384e+03
##	var 18:	
##	best	9.444495e+02
##	mean	9.226106e+02
##	variance	8.730205e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.096978e+02
##	variance	9.222611e+03
##	var 20:	
##	best	1.402471e+01
##	mean	2.148461e+01
##	variance	2.577034e+03
##	var 21:	
##	best	4.709105e+02
##	\mathtt{mean}	4.742530e+02
##	${\tt variance}$	9.746891e+02
##	var 22:	
##	best	
##	\mathtt{mean}	
##	variance	1.079133e+04
##	var 23:	

##	best	9.090861e+02
##	mean	4.075955e+02
##	variance	4.653462e+03
##	var 24:	
##	best	1.891909e+01
##	mean	3.836792e+01
##	variance	9.547266e+03
##	var 25:	
##	\mathtt{best}	9.166215e+02
##	\mathtt{mean}	9.082701e+02
##	${\tt variance}$	1.421292e+03
##	var 26:	
##	best	2.292040e+01
##	\mathtt{mean}	4.628487e+01
##	variance	3.670783e+03
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	5.990865e+01
##	variance	1.289797e+04
##	var 28:	
##	best	2.436413e+02
##	mean	2.456530e+02
##	variance	9.116471e+02
##	var 29:	4 000005 .00
##	best	4.030825e+02
##	mean	4.068320e+02
##	variancevar 30:	1.287611e+03
##		8.645341e+02
##	mean	8.583565e+02
##	variance	7.261518e+02
##	var 31:	7.2010106102
##	best	8.645241e+02
##	mean	8.499408e+02
##	variance	3.265063e+03
##	var 32:	0.2000000
##	best	1.878311e+02
##	mean	1.988710e+02
##	variance	
##	var 33:	
##	best	3.948430e+02
##	mean	4.022515e+02
##	variance	4.145705e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.151406e+02
##	variance	7.186073e+03
##	var 35:	
##	best	
##	\mathtt{mean}	1.700579e+02
##	${\tt variance}$	3.379628e+03
##	var 36:	
##	\mathtt{best}	
##	\mathtt{mean}	6.641866e+01

```
## variance..... 5.910151e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.991280e+02
## variance..... 2.583483e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.309495e+02
## variance..... 2.027282e+03
## var 39:
## best..... 5.350388e+02
## mean..... 5.257376e+02
## variance..... 3.795498e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.555642e+02
## variance..... 2.797218e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.803782e+02
## variance..... 2.973623e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.223542e+02
## variance..... 5.931925e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.484939e+02
## variance..... 4.528807e+02
## var 44:
## best..... 9.090666e+02
## mean..... 8.975591e+02
## variance..... 3.247023e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.304422e+02
## variance..... 8.543184e+02
##
## GENERATION: 20
## Lexical Fit..... 3.437331e-06 2.638058e-05 2.585492e-03 3.099098e-02 3.780078e-02 4.498021e-02
## #unique...... 70, #Total UniqueCount: 1450
## var 1:
## best..... 8.240461e+02
## mean..... 8.088564e+02
## variance..... 4.754524e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.191338e+02
## variance..... 2.739069e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.303082e+02
## variance..... 2.664675e+03
## var 4:
```

8e+02 2e+02 3e+03
3e+03
4e+01
7e+01
7e+03
9e+02
3e+02
2e+04
7e+02
2e+02
5e+03
4e+02
5e+02
1e+03
9e+02
5e+02
6e+04
0e+02
6e+02
2e+04
7e+02
3e+02
9e+04
8e+02
8e+02
1e+03
4e+02
2e+02
4e+03
7e+02
6e+02
5e+03
5e+02
0e+02
4e+03
4e+03 3e+02
4e+03
4e+03 3e+02
4e+03 3e+02 6e+02
4e+03 3e+02 6e+02

##	variance	9.134345e+03
##	var 18:	
##	best	9.444495e+02
##	mean	9.214275e+02
##	variance	9.631041e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.174645e+02
##	variance	1.912486e+03
##	var 20:	
##	best	1.402471e+01
##	mean	2.595025e+01
##	variance	3.461385e+03
##	var 21:	0 000505 .00
##	best	2.682507e+02
##	mean	4.696168e+02
##	variance	3.133869e+03
##	var 22:	4 007116-101
##	best	4.807116e+01 6.109914e+01
##	mean	3.149088e+03
##	variancevar 23:	3.149088e+03
##		3.934359e+02
##	best	6.388981e+02
##	meanvariance	6.257889e+04
##	var 24:	0.2576696+04
##	best	1.891909e+01
##	mean	3.870612e+01
##	variance	7.255196e+03
##	var 25:	
##	best	9.166215e+02
##	mean	9.045920e+02
##	variance	3.989930e+03
##	var 26:	
##	best	1.748745e+01
##	mean	3.384445e+01
##	variance	5.450371e+03
##	var 27:	
##	best	3.002178e+01
##	mean	4.348177e+01
##	variance	3.896605e+03
##	var 28:	
##	best	
##	\mathtt{mean}	2.501090e+02
##	variance	1.731361e+03
##	var 29:	
##	best	
##		4.133680e+02
##	variance	3.306459e+03
##	var 30:	
##	best	
##	mean	
##	variance	5.929103e+03
##	var 31:	

##	best	8.645241e+02
##	mean	8.580918e+02
##	variance	5.768854e+02
##	var 32:	
##	best	1.878311e+02
##	mean	2.105853e+02
##	variance	8.994656e+03
##	var 33:	
##	best	3.948430e+02
##	mean	3.930756e+02
##	${\tt variance}$	6.451399e+02
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.108499e+02
##	${\tt variance}$	3.108545e+03
##	var 35:	
##	best	1.635908e+02
##	\mathtt{mean}	1.757509e+02
##	${\tt variance}$	2.351046e+03
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	6.135419e+01
##	variance	2.179840e+03
##	var 37:	
##	best	3.919096e+02
##	mean	4.011044e+02
##	variance	3.503411e+03
##	var 38:	
##	best	3.230480e+02
##	mean	3.347374e+02
##	variance	4.360974e+03
##	var 39:	E 250200-100
	best	5.350388e+02 5.363635e+02
##	mean	5.670161e+02
##	variancevar 40:	5.670161e+02
##	best	1.481206e+02
##	mean	
##		
	var 41:	0.4104000.00
##	best	1 670743e+02
##	mean	1.799291e+02
	variance	
##	var 42:	1.0012010.00
##	best	2.038571e+02
##	mean	
##	variance	
##	var 43:	
##	best	2.450767e+02
##	mean	
##		
##	var 44:	
##	best	9.090666e+02
##	mean	8.786170e+02

```
## variance..... 1.317224e+04
## var 45:
## best..... 7.366138e+02
## mean..... 7.245669e+02
## variance..... 3.099850e+03
##
## GENERATION: 21
## Lexical Fit..... 5.714703e-06 1.373098e-04 1.683652e-03 3.684583e-03 3.684583e-03 3.099098e-02
## #unique...... 65, #Total UniqueCount: 1515
## var 1:
## best..... 8.240461e+02
## mean..... 8.102786e+02
## variance..... 3.611757e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.199004e+02
## variance..... 2.074563e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.293577e+02
## variance..... 1.670928e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.596497e+02
## variance..... 7.842006e+02
## var 5:
## best..... 5.093254e+01
## mean..... 6.878071e+01
## variance..... 8.901420e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.044881e+02
## variance..... 1.037696e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.773325e+02
## variance..... 7.159021e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.686624e+02
## variance..... 2.237930e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.365684e+02
## variance..... 3.979390e+03
## var 10:
## best..... 1.195810e+02
## mean..... 2.037908e+02
## variance..... 1.256111e+04
## var 11:
## best..... 7.781697e+02
## mean..... 7.732922e+02
## variance..... 6.284498e+02
```

var 12:

##	best	6.113928e+02
##	\mathtt{mean}	6.004568e+02
##	variance	2.638831e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.261431e+02
##	variance	1.192273e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	6.024164e+02
##	variance	3.841098e+02
##	var 15:	
##	best	1.328365e+02
##	mean	1.490108e+02
##	variance	4.613840e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.698429e+02
##	variance	1.310636e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.720970e+02
##	variance	4.485666e+03
##	var 18:	
##	best	9.444495e+02
##	mean	9.337379e+02
##	variance	1.947378e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.202955e+02
##	variance	1.410604e+03
##	var 20:	
##	best	1.402471e+01
##	mean	3.144268e+01
##	variance	5.300175e+03
##	var 21:	0.0001.00
##	best	2.682507e+02
##	mean	3.768255e+02
##		
	var 22:	
##		4.807116e+01
##	mean	
	variance	
##	var 23:	
##	best	3.934359e+02
##	mean	
##	variance	
##	var 24:	3.0211100.01
##	best	1.891909e+01
##	mean	
##		0.0200306100
##	best	9.166215e+02
##	mean	
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##	variance	2.171993e+02
##	var 26:	
##	best	1.748745e+01
##	\mathtt{mean}	3.797054e+01
##	variance	5.627220e+03
##	var 27:	
##	best	3.002178e+01
##	mean	5.680747e+01
##	variance	1.407371e+04
##	var 28:	0 044044 :04
##	best	8.944014e+01
##	mean	2.464813e+02
##	variancevar 29:	3.028940e+03
##	best	4.030825e+02
##	mean	4.030825e+02 4.042426e+02
##	variance	4.334591e+02
##	var 30:	4.0040016102
##	best	8.645341e+02
##	mean	8.537327e+02
##	variance	2.879591e+03
##	var 31:	
##	best	8.645241e+02
##	mean	8.471102e+02
##	variance	5.504068e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.991037e+02
##	${\tt variance}$	1.994312e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.939419e+02
##	variance	6.418301e+02
##	var 34:	
##	best	9.670946e+01
##	mean	1.024541e+02
##	variance	1.179730e+03
##	var 35:	1 (25000-100
##	best	
##	meanvariance	
##	var 36:	1.33095600
##	best	// 871201e+01
##	mean	
##	variance	
##	var 37:	0.0011110.00
##	best	3.919096e+02
##	mean	
##	variance	
##	var 38:	
##	best	3.230480e+02
##	mean	3.305787e+02
##	variance	1.736381e+03
##	var 39:	

```
## best..... 5.350388e+02
## mean..... 5.370840e+02
## variance..... 7.880944e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.597759e+02
## variance..... 2.757455e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.721600e+02
## variance..... 1.044112e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.162793e+02
## variance..... 3.211100e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.505130e+02
## variance..... 1.444962e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.972542e+02
## variance..... 2.533868e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.276774e+02
## variance..... 2.225578e+03
## GENERATION: 22
## Lexical Fit..... 8.412475e-06 2.218113e-04 2.129796e-03 2.129796e-03 5.574887e-03 2.487761e-02
## #unique...... 65, #Total UniqueCount: 1580
## var 1:
## best..... 8.240461e+02
## mean..... 8.146641e+02
## variance..... 3.481631e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.173112e+02
## variance..... 2.858510e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.193601e+02
## variance..... 1.689414e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.571537e+02
## variance..... 9.024178e+02
## var 5:
## best..... 5.093254e+01
## mean..... 6.431585e+01
## variance..... 3.996789e+03
## var 6:
## best..... 1.994509e+02
## mean..... 2.071002e+02
```

##	variance	1.425377e+03
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.627192e+02
##	variance	2.089709e+02
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.653831e+02
##	${\tt variance}$	6.892943e+02
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.469034e+02
##	${\tt variance}$	3.246517e+02
##	var 10:	
##	\mathtt{best}	1.195810e+02
##	mean	1.700379e+02
##	variance	1.246130e+04
##	var 11:	
##	best	7.781697e+02
##	mean	7.741636e+02
##	variance	3.804310e+02
##	var 12:	
##	best	6.113928e+02
##	mean	6.117163e+02
##	variance	8.235956e+02
##	var 13:	
##	best	1.193314e+02
##	mean	1.276079e+02
##	variance	2.689462e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.941896e+02
##	variance	2.617555e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.468975e+02
##	variance	4.692217e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.689484e+02
##	variance	8.447329e+02
##	var 17:	
##	best	8.877037e+02
##	mean	
##	variance	2.918152e+03
##	var 18:	
##	best	9.444495e+02
##		9.313878e+02
##	variance	5.136021e+03
##	var 19:	0.1000210.00
##	best	9 3111896+02
##	mean	
##	variance	
##	var 20:	1200000.02
11.11	· · · · · · · · · · · · · · · · · · ·	

##	best	1.402471e+01
##	\mathtt{mean}	2.894782e+01
##	variance	4.860466e+03
##	var 21:	
##	best	2.682507e+02
##	mean	3.413431e+02
##	variance	9.225643e+03
##	var 22:	
##	best	4.807116e+01
##	mean	5.346029e+01
##	variance	9.805522e+02
##	var 23:	
##	best	3.934359e+02
##	mean	5.339358e+02
##	variance	3.861681e+04
		3.0010016.04
##	var 24:	1 001000-101
	best	1.891909e+01
##	mean	2.735321e+01
##	variance	5.203554e+03
##	var 25:	0 400045 :00
##	best	9.166215e+02
##	mean	9.134356e+02
##	variance	3.442859e+02
##	var 26:	
##	best	1.748745e+01
##	mean	2.477366e+01
##	variance	5.310180e+02
##	var 27:	
##	best	3.002178e+01
##	mean	3.060836e+01
##	variance	2.100479e+01
##	var 28:	
##	best	8.944014e+01
##	mean	1.488640e+02
##	variance	7.200548e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.045627e+02
##		4.293470e+02
##	var 30:	
##	best	
##	\mathtt{mean}	8.549467e+02
##	${\tt variance}$	1.133010e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.588009e+02
##	${\tt variance}$	1.430376e+03
##	var 32:	
##	best	
##	mean	1.916529e+02
##	variance	4.558736e+02
##	var 33:	
##	best	3.948430e+02
##	mean	3.955119e+02

```
## variance..... 2.611154e+02
## var 34:
## best..... 9.670946e+01
## mean..... 9.918474e+01
## variance..... 1.622977e+02
## var 35:
## best..... 1.635908e+02
## mean..... 1.705264e+02
## variance..... 1.411522e+03
## var 36:
## best..... 4.871291e+01
## mean..... 6.808508e+01
## variance..... 4.988549e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.948662e+02
## variance..... 1.362749e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.238199e+02
## variance..... 1.300431e+03
## var 39:
## best..... 6.672147e+02
## mean..... 5.365872e+02
## variance..... 4.908224e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.563095e+02
## variance..... 1.772910e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.724006e+02
## variance..... 1.337747e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.071702e+02
## variance..... 3.434452e+02
## var 43:
## best..... 2.450767e+02
## mean..... 2.467632e+02
## variance..... 2.020816e+02
## var 44:
## best..... 9.090666e+02
## mean..... 9.005803e+02
## variance..... 6.239421e+02
## var 45:
## best..... 7.366138e+02
## mean..... 7.268053e+02
## variance..... 5.519965e+03
## GENERATION: 23
## Lexical Fit..... 1.390177e-05 2.646263e-04 1.950192e-03 1.205139e-02 1.205139e-02 4.498021e-02
## #unique...... 60, #Total UniqueCount: 1640
## var 1:
```

##	best	8.240461e+02
##	\mathtt{mean}	7.982037e+02
##	variance	1.223599e+04
##	var 2:	
##	best	1.080625e+02
##	\mathtt{mean}	1.202326e+02
##	variance	2.758581e+03
##	var 3:	
##	best	6.326810e+02
##	\mathtt{mean}	6.180580e+02
##	variance	5.319188e+03
##	var 4:	
##	best	4.596208e+02
##	mean	4.587795e+02
##	variance	2.806739e+03
##	var 5:	
##	best	5.093254e+01
##	mean	6.267427e+01
##	variance	5.514423e+03
##	var 6:	
##	best	1.994509e+02
##	mean	2.080324e+02
##	variance	2.557164e+03
##	var 7:	1 604027-100
##	best	1.604937e+02 1.654315e+02
##	meanvariance	6.595649e+02
##	var 8:	0.0900496+02
##	best	6.699284e+02
##	mean	6.555501e+02
##	variance	4.550667e+03
##	var 9:	110000010 00
##	best	9.497919e+02
##	mean	9.379419e+02
##	variance	3.855073e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.382965e+02
##	variance	4.344735e+03
##	var 11:	
##	best	
##	mean	
##	${\tt variance}$	1.961043e+02
##	var 12:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	2.206338e+03
##	var 13:	
##		1.193314e+02
##	\mathtt{mean}	
##		1.725278e+03
##	var 14:	0.044077 :00
##	best	

5.107433e+03
1.328365e+02
1.391563e+02
1.616322e+03
1.633113e+02
1.729581e+02
1.437708e+03
8.877037e+02
8.650465e+02
1.041601e+04
9.444495e+02
9.386229e+02
1.877250e+03
9.311189e+02
9.226809e+02
1.495862e+03
1.402471e+01
3.627887e+01
7.233774e+03
2.682507e+02
2.929382e+02
6.155804e+03
4.807116e+01
6.113168e+01
3.558726e+03
3.934359e+02
4.277432e+02
1.011278e+04
1.891909e+01
2.634759e+01
1.160512e+03
111000120 00
9.166215e+02
9.078815e+02
2.033517e+03
2.0000170.00
1.748745e+01
2.389084e+01
1.292042e+03
1.2320426703
3.002178e+01
3.599166e+01
4.713533e+02
±.1133336±02

##	best	3.973238e+01
##	mean	1.031459e+02
##	variance	6.559003e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.014127e+02
##	variance	8.552908e+02
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.549334e+02
##	${\tt variance}$	2.576768e+03
##	var 31:	
##	best	8.645241e+02
##	mean	8.405443e+02
##	variance	1.256908e+04
##	var 32:	
##	best	1.878311e+02
##	mean	2.075420e+02
##	variance	1.066843e+04
##	var 33:	
##	best	3.948430e+02
##	mean	4.016961e+02
##	variance	1.353203e+03
##	var 34:	
##	best	9.670946e+01
##	mean	1.197259e+02
##	variance	9.023377e+03
##	var 35:	
##	best	1.635908e+02
##	mean	1.740683e+02
##	${\tt variance}$	3.498236e+03
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	6.284822e+01
##	variance	4.302529e+03
##	var 37:	
##	best	3.919096e+02
##		4.040062e+02
##	variance	4.392522e+03
##	var 38:	
##	best	3.230480e+02
##	\mathtt{mean}	3.276022e+02
##	${\tt variance}$	4.053698e+03
##	var 39:	
##	best	5.592648e+02
##	\mathtt{mean}	5.827773e+02
##	${\tt variance}$	8.952743e+03
##	var 40:	
##	\mathtt{best}	1.481206e+02
##	\mathtt{mean}	1.671040e+02
##	variance	6.621689e+03
##	var 41:	
##	\mathtt{best}	1.670743e+02
##	\mathtt{mean}	1.823958e+02

```
## variance..... 4.394086e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.120704e+02
## variance..... 2.859581e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.517015e+02
## variance..... 3.703723e+03
## var 44:
## best..... 9.090666e+02
## mean..... 9.031928e+02
## variance..... 5.897939e+02
## var 45:
## best..... 7.366138e+02
## mean..... 7.269272e+02
## variance..... 4.708383e+03
##
## GENERATION: 24
## Lexical Fit..... 1.411019e-05 3.155177e-04 1.651269e-03 7.337181e-03 7.337181e-03 3.893869e-02
## #unique...... 68, #Total UniqueCount: 1708
## var 1:
## best..... 8.240461e+02
## mean..... 8.208738e+02
## variance..... 6.575060e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.201390e+02
## variance..... 4.705479e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.226485e+02
## variance..... 2.994523e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.568063e+02
## variance..... 1.546540e+03
## var 5:
## best..... 5.093254e+01
## mean..... 7.003369e+01
## variance..... 1.016510e+04
## var 6:
## best..... 1.994509e+02
## mean..... 2.059205e+02
## variance..... 6.203149e+02
## var 7:
## best..... 1.604937e+02
## mean..... 1.700129e+02
## variance..... 1.727391e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.631260e+02
## variance..... 1.712899e+03
## var 9:
```

##	best	9.497919e+02
##	mean	9.484230e+02
##	variance	6.937263e+01
##	var 10:	
##	best	1.195810e+02
##	mean	1.266465e+02
##	variance	1.457530e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.748241e+02
##	variance	5.173417e+02
##	var 12:	011101110 02
##	best	6.113928e+02
##	mean	6.122251e+02
##	variance	2.387395e+02
##	var 13:	2.00.0000 02
##	best	1.193314e+02
##	mean	1.343094e+02
##	variance	4.024215e+03
##	var 14:	110212100 00
##	best	6.011877e+02
##	mean	5.990637e+02
##	variance	4.957115e+02
##	var 15:	
##	best	1.328365e+02
##	mean	1.411573e+02
##	variance	1.827856e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.685431e+02
##	variance	1.044223e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.724239e+02
##	variance	6.277594e+03
##	var 18:	
##	best	9.444495e+02
##	mean	
##		1.363570e+03
	var 19:	
	best	9.311189e+02
##	mean	
	variance	
##	var 20:	
##	best	1.402471e+01
##	mean	
##	variance	
##	var 21:	
##	best	2.682507e+02
##	mean	
##	variance	
##	var 22:	
##	best	4.807116e+01
##	mean	5.931616e+01

##	${\tt variance}$	6.996392e+03
##	var 23:	
##	best	3.934359e+02
##	\mathtt{mean}	3.985425e+02
##	variance	1.287248e+03
##	var 24:	
##	best	1.891909e+01
##	\mathtt{mean}	2.816970e+01
##	variance	1.750239e+03
##	var 25:	
##	best	9.166215e+02
##	\mathtt{mean}	9.052463e+02
##	variance	3.237341e+03
##	var 26:	
##	best	1.748745e+01
##	\mathtt{mean}	2.724009e+01
##	variance	2.443829e+03
##	var 27:	
##	best	3.002178e+01
##	mean	3.463080e+01
##	variance	5.294090e+02
##	var 28:	
##	best	3.451081e+01
##	mean	8.353881e+01
##	variance	6.647819e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.039540e+02
##	variance	1.781409e+02
##	var 30:	
##	best	8.645336e+02
##	\mathtt{mean}	8.586142e+02
##	variance	3.320926e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.477117e+02
##	variance	8.620673e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	2.011437e+02
##	variance	4.201863e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.959327e+02
##	variance	2.233003e+02
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	1.156626e+02
##	variance	6.674233e+03
##	var 35:	
##	best	1.635908e+02
##	\mathtt{mean}	1.666390e+02
##	${\tt variance}$	3.797092e+02
##	var 36:	

```
## best..... 4.871291e+01
## mean..... 5.764814e+01
## variance..... 2.495924e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.942838e+02
## variance..... 2.883226e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.251497e+02
## variance..... 1.120961e+03
## var 39:
## best..... 5.478877e+02
## mean..... 6.113437e+02
## variance..... 3.176050e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.537003e+02
## variance..... 1.405226e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.784088e+02
## variance..... 6.113815e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.098051e+02
## variance..... 1.040800e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.490280e+02
## variance..... 3.103986e+02
## var 44:
## best..... 9.090666e+02
## mean..... 9.082991e+02
## variance..... 1.317633e+02
## var 45:
## best..... 7.366138e+02
## mean..... 7.374913e+02
## variance..... 5.607108e+02
##
## GENERATION: 25
## Lexical Fit..... 5.249596e-05 2.646263e-04 2.506449e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 65, #Total UniqueCount: 1773
## var 1:
## best..... 8.240461e+02
## mean..... 8.030161e+02
## variance..... 7.867401e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.206422e+02
## variance..... 3.259616e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.315869e+02
```

##	variance	1.026805e+03
##	var 4:	
##	best	4.596208e+02
##	\mathtt{mean}	4.567203e+02
##	variance	2.203945e+03
##	var 5:	
##	best	5.093254e+01
##	\mathtt{mean}	6.003282e+01
##	variance	2.261181e+03
##	var 6:	
##	best	1.506793e+02
##	\mathtt{mean}	2.256912e+02
##	variance	1.480145e+04
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.711120e+02
##	variance	2.667796e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.609214e+02
##	variance	2.905089e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.449120e+02
##	variance	6.074645e+02
##	var 10:	
##	best	1.195810e+02
##	mean	1.228392e+02
##	variance	2.279928e+02
##	var 11:	7 701 007 .00
##	best	7.781697e+02
##	mean	7.730614e+02
##	variance	2.536554e+03
##	var 12:	C 112000-100
##	best	6.113928e+02 6.142313e+02
##	mean	4.522444e+03
	variancevar 13:	4.5224446+03
##	best	1 10221/0102
## ##	mean	
##	variance	
##	var 14:	4.00000000000
##	best	6 0110770±00
##	mean	
##	variance	
##	var 15:	7.3017200+03
##		1.328365e+02
##	mean	
##	variance	
##	variancevar 16:	Z.0Z3430ETU3
##	best	1 6331135+00
##	mean	
##	variance	
##	var 17:	1.1000100.00

##	best	8.877037e+02
##	\mathtt{mean}	8.833800e+02
##	variance	7.797663e+02
##	var 18:	
##	best	9.444495e+02
##	\mathtt{mean}	9.315611e+02
##	variance	5.976203e+03
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.239058e+02
##	variance	9.384801e+02
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.474930e+01
##	variance	3.541391e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.798539e+02
##	${\tt variance}$	6.934980e+03
##	var 22:	
##	best	4.807116e+01
##	\mathtt{mean}	7.110402e+01
##	variance	8.061455e+03
##	var 23:	
##	best	3.934359e+02
##	\mathtt{mean}	3.941787e+02
##	variance	5.689043e+02
##	var 24:	
##	best	1.891909e+01
##	\mathtt{mean}	3.068923e+01
##	variance	3.134963e+03
##	var 25:	
##	best	9.166215e+02
##	\mathtt{mean}	9.149735e+02
##	variance	3.804298e+02
##	var 26:	
##	best	1.748745e+01
##	mean	
##		1.789080e+03
	var 27:	
##	best	
##	\mathtt{mean}	
	variance	6.493138e+02
##	var 28:	
##	best	
##	mean	
##	variance	8.674737e+03
##	var 29:	4 000005 155
##	best	
##	mean	
##		8.470124e+02
##	var 30:	0.045044 :00
##	best	
##	mean	8.40151/e+02

##	variance	1.128603e+04
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.526736e+02
##	variance	3.899091e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.936488e+02
##	variance	2.576098e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	4.054371e+02
##	variance	4.121560e+03
##	var 34:	
##	best	9.670946e+01
##	\mathtt{mean}	9.946553e+01
##	variance	2.990444e+02
##	var 35:	
##	best	1.635908e+02
##	\mathtt{mean}	1.701954e+02
##	variance	9.513977e+02
##	var 36:	
##	best	4.871291e+01
##	mean	5.792599e+01
##	variance	1.681888e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.959380e+02
##	variance	9.884151e+02
##	var 38:	
##	best	3.230480e+02
##	mean	3.337289e+02
##	variance	4.049331e+03
##	var 39:	
##	best	5.592648e+02
##	\mathtt{mean}	5.598078e+02
##	variance	3.742476e+03
##	var 40:	
##	best	1.481206e+02
##	\mathtt{mean}	1.607346e+02
##	variance	5.406501e+03
##	var 41:	
##	best	1.670743e+02
##	mean	1.733703e+02
##	variance	5.173287e+02
##	var 42:	
##	best	2.038571e+02
##	mean	2.129387e+02
##	variance	3.302725e+03
##	var 43:	
##	best	2.450767e+02
##	mean	2.528549e+02
##	variance	2.174480e+03
##	var 44:	

```
## best..... 9.090666e+02
## mean..... 9.028130e+02
## variance..... 1.089648e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.273817e+02
## variance..... 3.241753e+03
##
## GENERATION: 26
## Lexical Fit..... 6.006662e-05 3.542770e-04 1.859730e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique..... 64, #Total UniqueCount: 1837
## var 1:
## best..... 8.240461e+02
## mean..... 8.122884e+02
## variance..... 4.440273e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.210194e+02
## variance..... 3.412222e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.274931e+02
## variance..... 3.630005e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.608741e+02
## variance..... 5.746934e+02
## var 5:
## best..... 5.093254e+01
## mean..... 8.034412e+01
## variance..... 1.512976e+04
## var 6:
## best..... 1.506793e+02
## mean..... 1.836772e+02
## variance..... 2.477657e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.694149e+02
## variance..... 3.943145e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.645161e+02
## variance..... 4.077880e+02
## var 9:
## best..... 9.497919e+02
## mean..... 9.357158e+02
## variance..... 7.641746e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.311567e+02
## variance..... 3.615000e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.690455e+02
```

##	variance	2.954503e+03
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.095595e+02
##	variance	1.878506e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.250421e+02
##	variance	8.538210e+02
##	var 14:	0.011077 .00
##	best	6.011877e+02
##	mean	5.960605e+02
##	variance	8.962147e+02
##	var 15:	1 200205 - 100
##	best	1.328365e+02 1.496205e+02
##	mean	
##	variance	9.067665e+03
##	1	1.633113e+02
##	mean	1.775458e+02
##	variance	3.111811e+03
##	var 17:	3.111011e+03
##	best	8.877037e+02
##	mean	8.773614e+02
##	variance	4.696339e+03
##	var 18:	1.00000000
##	best	9.444495e+02
##	mean	9.262285e+02
##	variance	6.606723e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.136977e+02
##	variance	6.093063e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.001378e+01
##	variance	1.889597e+03
##	var 21:	
##	best	
##	\mathtt{mean}	
##	variance	4.138430e+03
##	var 22:	
##		4.807116e+01
##	mean	
##	variance	1.099584e+03
##	var 23:	0.004050 :00
##	best	
##	meanvariance	
##	variancevar 24:	0.0402200+02
##	var 24: best	1 8010000±01
##	mean	
##	variance	
##	var 25:	

##	best	9.166215e+02
##	$\mathtt{mean}.\dots$	9.096332e+02
##	variance	1.389121e+03
##	var 26:	
##	best	1.748745e+01
##	mean	3.221484e+01
##	variance	6.145518e+03
##	var 27:	
##	best	3.002178e+01
##	mean	5.059165e+01
##	variance	7.049697e+03
##	var 28:	1.0430310.00
##	best	3.973238e+01
##		4.986017e+01
	mean	
##	variance	3.974730e+03
##	var 29:	4 000005 .00
##	best	4.030825e+02
##	mean	4.029067e+02
##	variance	6.909348e+02
##	var 30:	0.04504400
##	best	8.645341e+02
##	mean	8.616448e+02
##	variance	2.607405e+02
##	var 31:	
##	best	8.645241e+02
##	mean	8.522566e+02
##	variance	5.276726e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.915105e+02
##	variance	1.128454e+03
##	var 33:	
##	best	3.948430e+02
##	mean	4.054668e+02
##	variance	4.889360e+03
##	var 34:	
##	best	6.856318e+01
##	\mathtt{mean}	
##	${\tt variance}$	4.381546e+03
##	var 35:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	5.766641e+03
##	var 36:	
##	\mathtt{best}	
##	\mathtt{mean}	6.419253e+01
##	${\tt variance}$	6.132790e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.989052e+02
##	variance	4.495910e+03
##	var 38:	
##	best	3.230480e+02
##	mean	3.320130e+02

```
## variance..... 2.913328e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.498279e+02
## variance..... 7.805796e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.532100e+02
## variance..... 1.906483e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.696194e+02
## variance..... 3.717471e+02
## var 42:
## best..... 2.038571e+02
## mean..... 2.221434e+02
## variance..... 6.556536e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.583417e+02
## variance..... 6.514971e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.992204e+02
## variance..... 3.220476e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.370029e+02
## variance..... 1.415763e+03
##
## GENERATION: 27
## Lexical Fit..... 1.326970e-04 3.542770e-04 1.614896e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique..... 68, #Total UniqueCount: 1905
## var 1:
## best..... 8.240461e+02
## mean..... 8.125651e+02
## variance..... 3.545706e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.213921e+02
## variance..... 4.757304e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.344852e+02
## variance..... 7.103669e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.555260e+02
## variance..... 1.649899e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.808243e+01
## variance..... 6.813218e+03
## var 6:
```

##	best	1.506793e+02
##	\mathtt{mean}	1.647109e+02
##	variance	2.461166e+03
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.683748e+02
##	variance	1.862870e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.655670e+02
##	variance	1.884815e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.337602e+02
##	variance	4.366988e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.262123e+02
##	variance	1.436803e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.625111e+02
##	variance	5.463071e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.117285e+02
##	variance	1.227619e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.310532e+02
##	variance	4.618019e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.970315e+02
##	variance	3.807473e+03
##	var 15:	0.000, 2, 00
##	best	1.328365e+02
##	mean	1.406307e+02
##		
	var 16:	2,2002010.02
##	best	1.633113e+02
##	mean	
	variance	
##	var 17:	3.1021010.00
##	best	8.877037e+02
##	mean	
##	variance	
##	var 18:	1.2100000.01
##	best	9.444495e+02
##	mean	
##		
##		0.0000376100
##	best	9.311189e+02
##	mean	
ππ	moan	0.1120146102

##	variance	5.916512e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	4.162428e+01
##	variance	1.229410e+04
##	var 21:	
##	best	2.682507e+02
##	mean	2.750250e+02
##	variance	2.444101e+03
##	var 22:	4 007446 :04
##	best	4.807116e+01
##	mean	7.270106e+01
##	variancevar 23:	1.186812e+04
##		3.934359e+02
##	mean	3.925190e+02
##	variance	1.823618e+03
##	variancevar 24:	1.0250106105
##	best	1.891909e+01
##	mean	2.251961e+01
##	variance	2.735083e+02
##	var 25:	
##	best	9.166215e+02
##	mean	9.000158e+02
##	variance	5.335395e+03
##	var 26:	
##	best	1.748745e+01
##	\mathtt{mean}	3.354495e+01
##	variance	5.793672e+03
##	var 27:	
##	best	3.002178e+01
##	mean	4.361590e+01
##	variance	5.148682e+03
##	var 28:	0.0000
##	best	3.973238e+01
##	mean	5.900924e+01
##	variance	9.842423e+03
##	var 29:	4 02000500
##	mean	
##	variance	
##	variancevar 30:	2.44000000100
##		8.645341e+02
##	mean	8.518986e+02
##	variance	4.778746e+03
##	var 31:	111101100
##		8.645241e+02
##	mean	8.456991e+02
##	variance	
##	var 32:	
##	best	1.878311e+02
##	mean	1.930145e+02
##	variance	3.110291e+03
##	var 33:	

```
## mean..... 3.919671e+02
## variance..... 4.158670e+03
## var 34:
## best..... 4.923904e+01
## mean..... 9.380739e+01
## variance..... 6.854601e+03
## var 35:
## best..... 1.635908e+02
## mean..... 1.752906e+02
## variance..... 2.667137e+03
## var 36:
## best..... 4.871291e+01
## mean..... 6.649149e+01
## variance..... 3.905859e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.945363e+02
## variance..... 6.314526e+02
## var 38:
## best..... 3.230480e+02
## mean..... 3.455420e+02
## variance..... 8.052797e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.509466e+02
## variance..... 2.530028e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.659517e+02
## variance..... 7.597058e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.852086e+02
## variance..... 7.287468e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.118059e+02
## variance..... 4.285843e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.531857e+02
## variance..... 3.316922e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.922439e+02
## variance..... 6.524798e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.304752e+02
## variance..... 2.322386e+03
##
## GENERATION: 28
## Lexical Fit..... 1.446488e-04 4.530342e-04 1.451957e-03 1.205139e-02 1.205139e-02 1.391657e-02
```

best..... 3.948430e+02

```
## #unique...... 69, #Total UniqueCount: 1974
## var 1:
## best..... 8.240461e+02
## mean..... 8.158898e+02
## variance..... 1.305171e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.164479e+02
## variance..... 2.311096e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.285765e+02
## variance..... 1.610637e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.651055e+02
## variance..... 1.207510e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.802922e+01
## variance..... 6.954913e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.622437e+02
## variance..... 3.925505e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.711392e+02
## variance..... 2.221469e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.675526e+02
## variance..... 3.632386e+02
## var 9:
## best..... 9.497919e+02
## mean..... 9.372802e+02
## variance..... 3.199892e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.314808e+02
## variance..... 4.307882e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.732420e+02
## variance..... 9.523947e+02
## var 12:
## best..... 6.113928e+02
## mean..... 6.101376e+02
## variance..... 5.040010e+02
## var 13:
## best..... 1.193314e+02
## mean..... 1.371602e+02
## variance..... 9.305865e+03
## var 14:
```

##	best	6.011877e+02
##	$\mathtt{mean}.\dots$	5.990199e+02
##	variance	2.739359e+02
##	var 15:	
##	best	1.328365e+02
##	mean	1.443903e+02
##	variance	3.613879e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.758705e+02
##	variance	3.103256e+03
##	var 17:	0.1002000.00
##	best	8.877037e+02
##	mean	8.801969e+02
##	variance	2.888426e+03
##	var 18:	2.0004206103
##		9.444495e+02
##	best	9.362359e+02
##	meanvariance	3.871707e+03
##	var 19:	3.0/1/0/e/03
##	best	9.311189e+02
##	mean	9.202744e+02
##	variance	3.770724e+03
##	var 20:	3.7707246703
##	best	1.402471e+01
##	mean	2.657641e+01
##	variance	8.911502e+03
##	var 21:	0.5110020.00
##	best	2.682507e+02
##	mean	2.740018e+02
##	variance	2.951957e+03
##	var 22:	2.0010010.00
##	best	4.807116e+01
##	mean	6.140225e+01
##	variance	3.408472e+03
##	var 23:	0.1001/20.00
##	best	8.226479e+02
	mean	
	variance	
	var 24:	2.21,0000.00
##	best	1.891909e+01
##		
	variance	
##		0.2000000.00
##	best	9.166215e+02
##	mean	
##	variance	
##		
##	best	1.748745e+01
##	mean	
	variance	
##		
##	best	3.002178e+01
##	mean	

## variance	7.328354e+03
## var 28:	
## best	3.973238e+01
## mean	5.343560e+01
## variance	5.314325e+03
## var 29:	
## best	4.030825e+02
## mean	4.024560e+02
## variance	3.157587e+03
## var 30:	
## best	8.645341e+02
## mean	8.562874e+02
## variance	8.680478e+02
## var 31:	
## best	8.645241e+02
## mean	8.459778e+02
## variance	6.451181e+03
## var 32:	
## best	1.878311e+02
## mean	2.092335e+02
## variance	9.698773e+03
## var 33:	
## best	3.948430e+02
## mean	3.950624e+02
## variance	1.855302e+03
## var 34:	
## best	4.828850e+01
## mean	7.027157e+01
## variance	5.890311e+03
## var 35:	
## best	1.635908e+02
## mean	1.815546e+02
## variance	1.068749e+04
## var 36:	
## best	4.871291e+01
## mean	5.690797e+01
## variance	2.856563e+03
## var 37:	
## best	3.919096e+02
## mean	4.010157e+02
## variance	1.375340e+03
## var 38:	
## best	3.230480e+02
## mean	3.291848e+02
## variance	1.196389e+03
## var 39:	
## best	5.592648e+02
## mean	
## variance	
## var 40:	
## best	1.481206e+02
## mean	
## variance	
## var 41:	
·	

```
## best..... 1.670743e+02
## mean..... 1.709160e+02
## variance..... 6.137521e+02
## var 42:
## best..... 2.038571e+02
## mean..... 2.147207e+02
## variance..... 2.672410e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.476467e+02
## variance..... 8.329448e+02
## var 44:
## best..... 9.090666e+02
## mean..... 8.906270e+02
## variance..... 6.297509e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.247204e+02
## variance..... 2.703571e+03
##
## GENERATION: 29
## Lexical Fit..... 1.446488e-04 4.530342e-04 1.451957e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 67, #Total UniqueCount: 2041
## best..... 8.240461e+02
## mean..... 8.210283e+02
## variance..... 4.743689e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.215262e+02
## variance..... 7.385090e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.320681e+02
## variance..... 2.966593e+02
## var 4:
## best..... 4.596208e+02
## mean..... 4.593755e+02
## variance..... 1.011421e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.920651e+01
## variance..... 7.651851e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.651855e+02
## variance..... 3.554386e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.654000e+02
## variance..... 3.724867e+02
## var 8:
## best..... 6.699284e+02
## mean..... 6.587127e+02
```

##	variance	4.802742e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.409118e+02
##	variance	2.030442e+03
##	var 10:	
##	best	1.195810e+02
##	\mathtt{mean}	1.277075e+02
##	variance	2.280471e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.750912e+02
##	variance	5.205096e+02
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.027862e+02
##	variance	5.653846e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.332181e+02
##	variance	2.109657e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.876496e+02
##	variance	4.027300e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.441274e+02
##	variance	5.373347e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.762436e+02
##	variance	2.981001e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.777917e+02
##	variance	2.475235e+03
##	var 18:	
##	best	9.444495e+02
##	mean	9.385153e+02
##	variance	7.930340e+02
##	var 19:	
##	best	9.311189e+02
##	mean	9.098473e+02
##	variance	1.018193e+04
##	var 20:	
##	best	1.402471e+01
##	mean	3.506116e+01
##	variance	
##	var 21:	
##	best	2.682507e+02
##	mean	
##	variance	
##	var 22:	

##	best	4.807116e+01
##	$\mathtt{mean}.\dots$	5.397439e+01
##	variance	7.962903e+02
##	var 23:	
##	best	8.226479e+02
##	mean	5.445582e+02
##	variance	3.772297e+04
##	var 24:	
##	best	1.891909e+01
##	mean	3.151862e+01
##	variance	3.123051e+03
##	var 25:	0.1200010.00
##	best	9.166215e+02
##		9.074691e+02
	mean	
##	variance	2.306021e+03
##	var 26:	1 740745 .01
##	best	1.748745e+01
##	mean	4.053822e+01
##	variance	1.131060e+04
##	var 27:	0.000170
##	best	3.002178e+01
##	mean	4.689534e+01
##	variance	7.773672e+03
##	var 28:	
##	best	3.973238e+01
##	mean	5.111626e+01
##	variance	3.575629e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.157260e+02
##	variance	6.354391e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.581488e+02
##	variance	1.217239e+03
##	var 31:	
##	best	8.645241e+02
	\mathtt{mean}	
##	${\tt variance}$	1.145258e+04
	var 32:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	4.786329e+03
##	var 33:	
##	\mathtt{best}	
##	\mathtt{mean}	
##	${\tt variance}$	1.783295e+03
##	var 34:	
##	best	4.828850e+01
##	mean	5.785971e+01
##	variance	2.537033e+03
##	var 35:	
##	best	1.635908e+02
##	mean	1.748376e+02

```
## variance..... 5.147269e+03
## var 36:
## best..... 4.871291e+01
## mean..... 6.431445e+01
## variance..... 5.606599e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.905738e+02
## variance..... 1.582872e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.223908e+02
## variance..... 1.474694e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.543918e+02
## variance..... 2.462780e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.615210e+02
## variance..... 3.809604e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.716765e+02
## variance..... 1.549834e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.169302e+02
## variance..... 3.915368e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.473823e+02
## variance..... 1.134594e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.954955e+02
## variance..... 4.568405e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.181386e+02
## variance..... 8.492350e+03
##
## GENERATION: 30
## Lexical Fit..... 1.680233e-04 4.530342e-04 1.171854e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 64, #Total UniqueCount: 2105
## var 1:
## best..... 8.240461e+02
## mean..... 8.143319e+02
## variance..... 3.401027e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.214266e+02
## variance..... 4.232769e+03
## var 3:
```

## best	6.326810e+02
## mean	6.202798e+02
## variance	3.717873e+03
## var 4:	
## best	4.596208e+02
## mean	4.599827e+02
## variance	5.046369e+03
## var 5:	
## best	5.093254e+01
## mean	6.060013e+01
## variance	7.397553e+03
## var 6:	
## best	1.506793e+02
## mean	1.563377e+02
## variance	1.758050e+03
## var 7:	
## best	1.604937e+02
## mean	1.719071e+02
## variance	5.215994e+03
## var 8:	
## best	6.699284e+02
## mean	6.602949e+02
## variance	2.357768e+03
## var 9:	
## best	9.497919e+02
## mean	9.326743e+02
## variance	9.155475e+03
## var 10:	
## best	1.195810e+02
## mean	1.291342e+02
## variance	3.003603e+03
## var 11:	
## best	7.781697e+02
## mean	7.805467e+02
## variance	4.539583e+02
## var 12:	1.0000000.02
## best	6.113928e+02
## mean	
## wariance	
## var 13:	1.0100406100
## var 13. ## best	1 19331/16+02
## mean	
## mean	
## variance ## var 14:	2.1412316402
## var 14: ## best	6 0118775±02
## mean	
## mean ## variance	
<pre>## variance ## var 15:</pre>	J.1222U3E+U3
	1 200265-100
## best	
## mean	
## variance	3.8/564/e+03
## var 16:	4 (00440 :00
## best	
## mean	1.641066e+02

##	variance	4.027542e+01
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.733313e+02
##	variance	7.021297e+03
##	var 18:	
##	best	9.444495e+02
##	\mathtt{mean}	9.217931e+02
##	variance	1.122625e+04
##	var 19:	
##	best	9.311189e+02
##	mean	9.227797e+02
##	variance	3.601351e+03
##	var 20:	
##	best	1.402471e+01
##	mean	2.318313e+01
##	variance	2.953276e+03
##	var 21:	
##	best	2.682507e+02
##	mean	2.793492e+02
##	variance	4.833163e+03
##	var 22:	
##	best	4.807116e+01
##	mean	5.343260e+01
##	variance	7.171756e+02
##	var 23:	0.00047000
##	best	8.226479e+02
##	mean	7.579747e+02
##	variancevar 24:	1.714617e+04
##	best	1.891909e+01
##	mean	3.357938e+01
##	variance	3.882731e+03
##	var 25:	3.002/31e/03
##	best	9.166215e+02
##	mean	8.952948e+02
##	variance	1.289061e+04
##	var 26:	1.2000010.04
##	best	1.748745e+01
##	mean	
##	variance	
##	var 27:	0.0000000
##	best	3.002178e+01
##	mean	
##	variance	
##	var 28:	110020010 01
##	best	3.973238e+01
##	mean	5.266000e+01
##	variance	
##	var 29:	
##	best	4.030825e+02
##	mean	4.019552e+02
##	variance	
##	var 30:	

##	best	8.645341e+02
##	\mathtt{mean}	8.623566e+02
##	variance	3.023953e+02
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.532725e+02
##	variance	3.469411e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.901648e+02
##	variance	2.060928e+02
##	var 33:	
##	best	3.948430e+02
##	mean	4.099094e+02
##	variance	6.686328e+03
##	var 34:	
##	best	4.828850e+01
##	mean	5.428893e+01
##	variance	1.025529e+03
##	var 35:	
##	best	2.748278e+02
##	mean	1.680549e+02
##	variance	8.643515e+02
##	var 36:	
##	best	4.871291e+01
##	mean	5.647078e+01
##	variance	1.751053e+03
##	var 37:	0.04000000
##	best	3.919096e+02
##	mean	3.973097e+02
##	variance	1.967753e+03
##	var 38:	3.230480e+02
##	best	3.274866e+02
##	mean	2.515221e+03
##	variancevar 39:	2.0102216+03
##	best	5.592648e+02
##	mean	
##		
	var 40:	1.1110106102
##		1.481206e+02
##	mean	
	variance	
##	var 41:	
##		1.670743e+02
##		1.719819e+02
##	variance	
##	var 42:	
##	best	2.038571e+02
##	mean	
##	variance	
##	var 43:	
##	best	2.450767e+02
##	mean	

```
## variance..... 9.183956e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.859094e+02
## variance..... 1.351609e+04
## var 45:
## best..... 7.366138e+02
## mean..... 7.249557e+02
## variance..... 4.452304e+03
##
## GENERATION: 31
## Lexical Fit..... 1.680233e-04 4.530342e-04 1.171854e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique..... 64, #Total UniqueCount: 2169
## var 1:
## best..... 8.240461e+02
## mean..... 8.238570e+02
## variance..... 9.860737e+01
## var 2:
## best..... 1.080625e+02
## mean..... 1.082741e+02
## variance..... 1.863586e+01
## var 3:
## best..... 6.326810e+02
## mean..... 6.284236e+02
## variance..... 3.052578e+03
## var 4:
## best..... 4.596208e+02
## mean..... 4.574579e+02
## variance..... 3.114296e+03
## var 5:
## best..... 5.093254e+01
## mean.... 5.350683e+01
## variance..... 1.130271e+02
## var 6:
## best..... 1.506793e+02
## mean..... 1.569573e+02
## variance..... 1.540329e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.629159e+02
## variance..... 1.637389e+02
## var 8:
## best..... 6.699284e+02
## mean..... 6.675375e+02
## variance..... 1.511449e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.444698e+02
## variance..... 2.054794e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.216170e+02
## variance..... 9.941181e+01
```

var 11:

##	best	7.781697e+02
##	\mathtt{mean}	7.684810e+02
##	variance	4.206965e+03
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.022043e+02
##	variance	4.233114e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.309512e+02
##	variance	4.314595e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	6.019790e+02
##	variance	3.894180e+02
##	var 15:	
##	best	1.328365e+02
##	\mathtt{mean}	1.360973e+02
##	variance	1.562527e+02
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.662631e+02
##	variance	1.353985e+02
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.861515e+02
##	variance	1.193454e+02
##	var 18:	
##	best	9.444495e+02
##	\mathtt{mean}	9.338049e+02
##	variance	4.857616e+03
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.240884e+02
##	variance	4.252881e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	
##		2.401333e+03
	var 21:	
##	best	
##	\mathtt{mean}	
	variance	4.934774e+03
##	var 22:	
##	best	
##	mean	
##	variance	2.413305e+03
##	var 23:	
##	best	
##	mean	
	variance	4.658229e+03
##		1 001000 101
##	best	
##	\mathtt{mean}	2.380/33e+01

## variance. 2.612910e ## var 25: ## best. 9.166215e ## mean. 9.103565e ## variance. 1.779073e ## var 26: ## best. 1.748745e ## mean. 2.380534e ## variance. 1.224292e ## var 27: ## best. 3.002178e ## mean. 3.509328e ## variance. 9.133785e ## var 28: ## best. 3.973238e ## variance. 4.544966e ## var 29: ## best. 4.030825e ## mean. 4.069730e ## variance. 1.496104e ## var 30: ## best. 8.645341e ## mean. 8.529783e ## variance. 4.843153e ## variance. 1.994499e ## var 31: ## best. 8.645241e ## mean. 8.587924e ## variance. 1.994499e ## var 32: ## best. 1.878311e ## mean. 1.963701e ## variance. 2.724934e ## variance. 2.724934e ## var 33: ## best. 3.948430e ## mean. 3.979252e ## variance. 4.828850e ## mean. 3.979252e ## variance. 4.828850e ## mean. 3.979252e ## variance. 4.828850e ## mean. 5.245382e ## variance. 4.290198e ## var 36: ## best. 2.748278e ## variance. 4.290198e ## var 36: ## variance. 3.911547e ## variance. 3.919066e ## mean. 3.911547e ## variance. 3.919066e ## mean. 3.911547e ## variance. 3.91906e ## mean. 3.911547e ## variance. 3.91906e ## mean. 3.911547e ## variance. 3.919096e ## mean. 3.911547e ## variance. 3.608516e	
## best 9.166215e ## mean 9.103565e ## variance. 1.779073e ## var 26: ## best 1.748745e ## mean 2.380534e ## variance. 1.224292e ## var 27: ## best 3.002178e ## war 27: ## best 3.509328e ## variance. 9.133785e ## var 28: ## best 3.973238e ## variance. 4.544966e ## var 29: ## best 4.030825e ## war 29: ## best 4.030825e ## wariance. 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance. 4.843153e ## variance. 1.994499e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance. 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance. 2.724934e ## variance. 2.724934e ## variance. 3.948430e ## mean 3.979252e ## variance. 4.387615e ## var 34: ## best 4.828850e ## mean 6.08238e ## variance. 6.425484e ## variance. 6.425484e ## variance. 3.919096e ## mean 3.911547e ## variance. 3.608516e	+02
## mean 9.103565e ## variance. 1.779073e ## var 26: ## best 1.748745e ## mean 2.380534e ## variance. 1.224292e ## var 27: ## best 3.002178e ## war 28: ## best 3.509328e ## variance. 9.133785e ## var 28: ## best 3.973238e ## variance. 4.544966e ## var 29: ## best 4.030825e ## war 29: ## best 4.030825e ## wariance. 1.496104e ## var 30: ## best 8.645341e ## war 30: ## best 8.645341e ## mean 8.529783e ## variance. 4.843153e ## variance. 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance. 2.724934e ## variance. 2.724934e ## variance. 3.948430e ## mean 3.979252e ## variance. 4.387615e ## var 34: ## best 4.828850e ## mean 6.425484e ## variance. 6.425484e ## variance. 4.290198e ## variance. 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance. 3.608516e	
## variance	–
## var 26: ## best	÷+02
## best	÷+03
## mean 2.380534e ## variance 1.224292e ## var 27: ## best 3.002178e ## mean 3.509328e ## variance 9.133785e ## var 28: ## best 3.973238e ## mean 4.989376e ## variance 4.544966e ## var 29: ## best 4.030825e ## mean 4.069730e ## variance 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance 4.843153e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## variance 2.724934e ## variance 4.387615e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 4.387615e ## var 36: ## best 4.82850e ## mean 6.425484e ## var 36: ## best 4.871291e ## var 36: ## best 4.871291e ## var 36: ## best 4.871291e ## war 36: ## best 4.871291e ## war 36: ## best 4.871291e ## war 36: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## variance	
## var 27: ## best	
## best. 3.002178e ## mean. 3.509328e ## variance 9.133785e ## var 28: ## best. 3.973238e ## mean. 4.989376e ## variance 4.544966e ## var 29: ## best. 4.030825e ## mean. 4.069730e ## variance 1.496104e ## var 30: ## best. 8.645341e ## mean. 8.529783e ## variance 4.843153e ## variance 1.994499e ## var 31: ## best. 8.645241e ## mean. 8.587924e ## variance 1.994499e ## var 32: ## best. 1.878311e ## mean. 1.963701e ## variance 2.724934e ## var 33: ## best. 3.948430e ## war 33: ## best. 3.948430e ## mean. 3.979252e ## variance 4.387615e ## var 34: ## best. 4.828850e ## mean. 6.008238e ## variance 6.425484e ## var 35: ## best. 2.748278e ## mean. 2.186948e ## variance 4.290198e ## variance 4.290198e ## variance 3.031771e ## var 37: ## best. 3.919096e ## mean. 3.911547e ## variance 3.608516e	÷+03
## mean 3.509328e ## variance 9.133785e ## var 28: ## best 3.973238e ## mean 4.989376e ## variance 4.544966e ## var 29: ## best 4.030825e ## mean 4.069730e ## variance 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance 4.843153e ## variance 4.843153e ## variance 1.994499e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## variance 2.724934e ## variance 4.387615e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 4.82878e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	. 04
## variance	
## var 28: ## best	
## best. 3.973238e ## mean. 4.989376e ## variance 4.544966e ## var 29: ## best. 4.030825e ## mean. 4.069730e ## variance 1.496104e ## var 30: ## best. 8.645341e ## mean. 8.529783e ## variance 4.843153e ## var 31: ## best. 8.645241e ## mean. 8.587924e ## variance 1.994499e ## var 32: ## best. 1.878311e ## mean. 1.963701e ## variance 2.724934e ## var 33: ## best. 3.948430e ## mean. 3.979252e ## variance 4.387615e ## var 34: ## best. 4.828850e ## mean. 6.008238e ## variance 6.425484e ## var 35: ## best. 2.748278e ## war 36: ## best. 4.871291e ## mean. 5.245352e ## variance 3.031771e ## var 37: ## best. 3.919096e ## mean. 3.911547e ## variance 3.608516e	3 + 02
## mean 4.989376e ## variance 4.544966e ## var 29: ## best 4.030825e ## mean 4.069730e ## variance 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 6.425484e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	·±Λ1
## variance 4.544966e ## var 29: ## best 4.030825e ## mean 4.069730e ## variance 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## war 33: ## best 3.948430e ## war 34: ## best 4.828850e ## war 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## var 29: ## best	
## best.	;103
## mean 4.069730e ## variance 1.496104e ## var 30: ## best 8.645341e ## mean 8.529783e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## war 33: ## best 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 6.425484e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	+02
## variance	–
## var 30: ## best	–
## mean 8.529783e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## mean 8.529783e ## variance 4.843153e ## var 31: ## best 8.645241e ## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	+02
## var 31: ## best	+02
## best. 8.645241e ## mean. 8.587924e ## variance. 1.994499e ## var 32: ## best. 1.878311e ## mean. 1.963701e ## variance. 2.724934e ## var 33: ## best. 3.948430e ## mean. 3.979252e ## variance. 4.387615e ## var 34: ## best. 4.828850e ## mean. 6.008238e ## variance. 6.425484e ## var 35: ## best. 2.748278e ## war 36: ## var 36: ## var 36: ## best. 4.871291e ## mean. 5.245352e ## variance. 3.031771e ## var 37: ## best. 3.919096e ## mean. 3.911547e ## variance. 3.608516e	+03
## mean 8.587924e ## variance 1.994499e ## var 32: ## best 1.878311e ## mean 1.963701e ## variance 2.724934e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## variance 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
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## var 32: ## best	+02
## best	+03
## mean	
## variance 2.724934e ## var 33: ## best 3.948430e ## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## var 33: ## best	+02
## best	÷+03
## mean 3.979252e ## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## variance 4.387615e ## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	–
## var 34: ## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	–
## best 4.828850e ## mean 6.008238e ## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	+02
## mean 6.008238e ## variance. 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance. 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance. 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance. 3.608516e	. 04
## variance 6.425484e ## var 35: ## best 2.748278e ## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## var 35: ## best	
best. 2.748278e ## mean. 2.186948e ## variance. 4.290198e ## var 36: ## best. 4.871291e ## mean. 5.245352e ## variance. 3.031771e ## var 37: ## best. 3.919096e ## mean. 3.911547e ## variance. 3.608516e) +03
## mean 2.186948e ## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	· Τ ΟΟ
## variance 4.290198e ## var 36: ## best 4.871291e ## mean 5.245352e ## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e	
## var 36: ## best	
## best	,.00
## mean	+01
<pre>## variance 3.031771e ## var 37: ## best 3.919096e ## mean 3.911547e ## variance 3.608516e</pre>	
## var 37: ## best	
## best	-
## variance 3.608516e	+02
	+02
## war 20.	+02
## Val 30.	

```
## best..... 3.230480e+02
## mean..... 3.282237e+02
## variance..... 3.077135e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.591465e+02
## variance..... 6.423544e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.545509e+02
## variance..... 1.094469e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.748464e+02
## variance..... 3.171404e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.135788e+02
## variance..... 5.122765e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.450721e+02
## variance..... 1.646109e+02
## var 44:
## best..... 9.090666e+02
## mean..... 8.976956e+02
## variance..... 4.611945e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.308982e+02
## variance..... 1.675448e+03
##
## GENERATION: 32
## Lexical Fit..... 2.094864e-04 2.915814e-04 8.633368e-04 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 69, #Total UniqueCount: 2238
## var 1:
## best..... 8.240461e+02
## mean..... 8.029745e+02
## variance..... 9.510132e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.221583e+02
## variance..... 3.913750e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.266039e+02
## variance..... 1.735704e+03
## var 4:
## best..... 9.932837e+02
## mean..... 4.636356e+02
## variance..... 4.522001e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.221720e+01
```

##	variance	3.841157e+03
##	var 6:	
##	best	1.506793e+02
##	\mathtt{mean}	1.552737e+02
##	variance	1.766123e+03
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.613285e+02
##	variance	2.249739e+02
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.676165e+02
##	variance	1.598908e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.375212e+02
##	variance	6.398499e+03
##	var 10:	
##	best	1.195810e+02
##	\mathtt{mean}	1.361563e+02
##	variance	6.792494e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.703127e+02
##	variance	3.389016e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.145841e+02
##	variance	6.656428e+02
##	var 13:	
##	best	1.193314e+02
##	mean	1.301550e+02
##	variance	2.878492e+03
##	var 14:	0 044077 :00
##	best	6.011877e+02
##	mean	5.965665e+02 3.552808e+03
##	variance	3.552808e+03
##	var 15:	1 200265-100
##	best	1.328365e+02
##	mean	
##	variance	3.698485e+02
##		1.633113e+02
##	mean	1.726947e+02
##	variance	
##	variancevar 17:	4.2007956+03
##		8.877037e+02
##	mean	8.741568e+02
##	wariance	
##	variancevar 18:	4.0/10236+03
##		3.197400e+02
##	mean	
##	variance	
##	var 19:	

##	best	9.311189e+02
##	\mathtt{mean}	9.107054e+02
##	variance	1.181716e+04
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.301158e+01
##	variance	2.161598e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.693325e+02
##	variance	1.178552e+03
##	var 22:	
##	best	4.807116e+01
##	mean	4.956622e+01
##	variance	8.468823e+01
##	var 23:	
##	best	8.226479e+02
##	mean	8.054450e+02
##	variance	3.144714e+03
##	var 24:	
##	best	1.891909e+01
##	mean	3.544266e+01
##	variance	7.041206e+03
##	var 25:	0 466045 :00
##	best	9.166215e+02
##	mean	8.920080e+02
##	variance	1.109434e+04
##	var 26:	1.748745e+01
##	mean	3.850441e+01
##	variance	1.084560e+04
##	var 27:	1.0043000104
##	best	3.002178e+01
##	mean	5.089700e+01
##	variance	1.253687e+04
##	var 28:	1.2000076.04
##	best	3.973238e+01
##	mean	
##		
	var 29:	
##	best	4.030825e+02
##	mean	
##	variance	5.189079e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.382918e+02
##	variance	1.433441e+04
##	var 31:	
##	best	
##	\mathtt{mean}	
##	variance	4.065231e+03
##	var 32:	
##	best	
##	\mathtt{mean}	1.922338e+02

##	variance	1.139843e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.986220e+02
##	variance	1.295187e+03
##	var 34:	
##	best	4.828850e+01
##	\mathtt{mean}	6.056319e+01
##	variance	6.107509e+03
##	var 35:	
##	best	2.748278e+02
##	mean	2.704209e+02
##	variance	5.032982e+03
##	var 36:	4 054004 .04
##	best	4.871291e+01
##	mean	6.680086e+01
##	variance	5.222903e+03
##	var 37:	0.01000000
##	best	3.919096e+02
##	mean	3.981302e+02
##	variance	1.851738e+03
##	var 38:	
##	best	3.230480e+02
##	mean	3.275872e+02
##	variance	2.125545e+03
##	var 39:	
##	best	5.592648e+02
##	mean	5.618436e+02
##	variance	2.712244e+03
##	var 40:	
##	best	1.481206e+02
##	mean	1.506819e+02
##	variance	1.514230e+03
##	var 41:	1 670749-100
##	best	1.670743e+02
##	mean	1.719416e+02
##	variance	7.701179e+02
	var 42:	0 020571-100
##	best	
##	mean	
	<pre>variance var 43:</pre>	9.109588e+02
##		0 450767-100
##	best	
##		2.491442e+02 2.097882e+03
##	variance	2.097882e+03
##	var 44:	0.000666-100
##	best	
##	meanvariance	9.025805e+02 3.098600e+03
##		3.098600e+03
##	var 45:	7 266120-100
##	best	
##	meanvariance	
##	variance	0.0002496+03
##		

```
## GENERATION: 33
## Lexical Fit..... 2.540867e-04 4.530342e-04 1.021089e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique..... 64, #Total UniqueCount: 2302
## var 1:
## best..... 8.240461e+02
## mean..... 8.213449e+02
## variance..... 4.664815e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.190158e+02
## variance..... 5.801268e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.300086e+02
## variance..... 3.672044e+02
## var 4:
## best..... 7.505777e+02
## mean..... 6.807425e+02
## variance..... 5.990915e+04
## var 5:
## best..... 5.093254e+01
## mean..... 6.398742e+01
## variance..... 7.612685e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.538833e+02
## variance..... 6.392998e+02
## var 7:
## best..... 1.604937e+02
## mean..... 1.707720e+02
## variance..... 4.632815e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.689199e+02
## variance..... 3.915384e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.272598e+02
## variance..... 8.963263e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.286205e+02
## variance..... 3.866789e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.801655e+02
## variance..... 7.193741e+02
## var 12:
## best..... 6.113928e+02
## mean..... 6.078167e+02
## variance..... 1.971396e+03
## var 13:
## best..... 1.193314e+02
## mean..... 1.296346e+02
```

## variance	2.595941e+03
## var 14:	
## best	6.011877e+02
## mean	5.946119e+02
## variance	2.534126e+03
## var 15:	
## best	1.328365e+02
## mean	1.468499e+02
## variance	5.643652e+03
## var 16:	
## best	1.633113e+02
## mean	1.733528e+02
## variance	4.350117e+03
## var 17:	
## best	8.877037e+02
## mean	8.725631e+02
## variance	7.127462e+03
## var 18:	
## best	5.749947e+02
## mean	5.871161e+02
## variance	8.190324e+04
## var 19:	
## best	9.311189e+02
## mean	9.149921e+02
## variance	5.507709e+03
## var 20:	
## best	1.402471e+01
## mean	3.848858e+01
## variance	1.008633e+04
## var 21:	
## best	2.682507e+02
## mean	2.811812e+02
## variance	5.316891e+03
## var 22:	
## best	4.807116e+01
## mean	5.509479e+01
## variance	1.135264e+03
## var 23:	
## best	8.225830e+02
## mean	8.018622e+02
## variance	7.729136e+03
## var 24:	
## best	1.891909e+01
## mean	3.794735e+01
## variance	
## var 25:	
	9.166215e+02
## mean	
## variance	
## var 26:	
## best	1 748745e+01
## mean	
## wariance	
## var 27:	3.1111000.00
Var 21.	

##	best	3.002178e+01
##	\mathtt{mean}	4.907584e+01
##	variance	1.023894e+04
##	var 28:	
##	best	3.973238e+01
##	mean	5.040569e+01
##	variance	7.536990e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.057991e+02
##	variance	4.309405e+02
##	var 30:	
##	best	8.645341e+02
##	mean	8.486424e+02
##	variance	1.003786e+04
##	var 31:	1.0007000.01
##	best	8.645241e+02
##	mean	8.615952e+02
##	variance	3.723084e+02
##	variancevar 32:	0.1200046702
##	best	1.878311e+02
##		2.050797e+02
##	mean	7.069835e+03
##	variancevar 33:	7.009035e+03
##		3.948430e+02
##	best	3.968251e+02
##	meanvariance	5.981956e+02
##	var 34:	J.901930e102
##	1	4.828862e+01
##	mean	7.395227e+01
##	variance	1.313797e+04
##	var 35:	1.010/3/6/04
##	1	2.692335e+02
##	mean	2.741448e+02
##	variance	3.284737e+02
##	var 36:	3.204/3/6+02
##		4.871291e+01
	best	
##		
##	variancevar 37:	1.066611e+04
		2 010006-100
##		
##	meanvariance	
		4.2911/00+03
##	best	3 330400°±00
	mean	
##		
##		4.4092450+03
##		
шш	L +	
##	best	
##	mean	5.591990e+02
## ##	meanvariance	5.591990e+02
## ## ##	meanvariancevar 40:	5.591990e+02 4.975574e+03
## ##	meanvariancevar 40:	5.591990e+02 4.975574e+03 1.481206e+02

```
## variance..... 2.120717e+02
## var 41:
## best..... 1.670743e+02
## mean..... 1.837907e+02
## variance..... 5.373796e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.201584e+02
## variance..... 7.965214e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.455993e+02
## variance..... 1.636234e+02
## var 44:
## best..... 9.090666e+02
## mean..... 9.058522e+02
## variance..... 4.969514e+02
## var 45:
## best..... 7.366138e+02
## mean..... 7.290407e+02
## variance..... 2.680089e+03
## GENERATION: 34
## Lexical Fit..... 2.540867e-04 4.530342e-04 1.021089e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 69, #Total UniqueCount: 2371
## var 1:
## best..... 8.240461e+02
## mean..... 8.200018e+02
## variance..... 5.043169e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.336096e+02
## variance..... 1.245784e+04
## var 3:
## best..... 6.326810e+02
## mean..... 6.259972e+02
## variance..... 1.400979e+03
## var 4:
## best..... 7.505777e+02
## mean..... 7.724485e+02
## variance..... 1.369541e+04
## var 5:
## best..... 5.093254e+01
## mean..... 6.625779e+01
## variance..... 5.191375e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.674692e+02
## variance..... 7.292686e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.722732e+02
## variance..... 4.062872e+03
## var 8:
```

##	best	6.699284e+02
##	\mathtt{mean}	6.647699e+02
##	variance	2.066313e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.330983e+02
##	variance	6.277510e+03
##	var 10:	
##	best	1.195810e+02
##	\mathtt{mean}	1.261452e+02
##	variance	1.554561e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.789921e+02
##	variance	9.180471e+01
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.071432e+02
##	variance	3.530141e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.274115e+02
##	variance	3.324781e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	5.974117e+02
##	variance	3.360107e+03
##	var 15:	
##	best	1.328365e+02
##	\mathtt{mean}	1.397167e+02
##	variance	1.523744e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.766018e+02
##	variance	4.531968e+03
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	
##		8.127130e+02
	var 18:	
##	best	
##	\mathtt{mean}	
	variance	9.612273e+03
##	var 19:	
##		9.311189e+02
##	mean	
##	variance	1.799107e+04
##	var 20:	
##	best	
##	\mathtt{mean}	
##		5.323883e+03
##	var 21:	
##	best	
##	mean	2.809980e+02

##	variance	3.400698e+03
##	var 22:	
##	best	4.807116e+01
##	\mathtt{mean}	6.026002e+01
##	variance	2.565305e+03
##	var 23:	
##	best	8.225830e+02
##	mean	8.185680e+02
##	variance	5.412952e+02
##	var 24:	1 001000-101
##	best	1.891909e+01 3.295469e+01
##	meanvariance	8.184807e+03
##	var 25:	0.1040076+03
##	best	9.166215e+02
##	mean	9.100213e+02 9.120972e+02
##	variance	6.804955e+02
##	var 26:	0.0010000.02
##	best	1.748745e+01
##	mean	2.663980e+01
##	variance	3.750378e+03
##	var 27:	
##	best	3.002178e+01
##	mean	3.838594e+01
##	variance	1.785255e+03
##	var 28:	
##	best	3.973238e+01
##	\mathtt{mean}	5.359624e+01
##	variance	5.433662e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.092336e+02
##	variance	5.795435e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.604887e+02
##	variance	8.901688e+02
##	var 31: best	0 6/50/10100
## ##	mean	
##	variance	
##	var 32:	3.922012e103
##	best	1 8783110+02
##	mean	
##	variance	
##	var 33:	0.0000000000
##	best	3.948430e+02
##	mean	
##	variance	
##	var 34:	
##	best	4.828862e+01
##	mean	6.850686e+01
##	variance	1.144392e+04
##	var 35:	

```
## best..... 2.692335e+02
## mean..... 2.770270e+02
## variance..... 4.053622e+03
## var 36:
## best..... 4.871291e+01
## mean..... 6.958637e+01
## variance..... 8.360161e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.886714e+02
## variance..... 7.509083e+02
## var 38:
## best..... 3.230480e+02
## mean..... 3.235586e+02
## variance..... 3.464879e+01
## var 39:
## best..... 5.592648e+02
## mean..... 5.583110e+02
## variance..... 1.120473e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.569004e+02
## variance..... 2.657849e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.809221e+02
## variance..... 4.522666e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.083302e+02
## variance..... 9.463852e+02
## var 43:
## best..... 2.450767e+02
## mean..... 2.576880e+02
## variance..... 6.301193e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.934958e+02
## variance..... 5.566614e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.321958e+02
## variance..... 2.084443e+03
##
## GENERATION: 35
## Lexical Fit..... 2.540867e-04 4.530342e-04 1.021089e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 70, #Total UniqueCount: 2441
## var 1:
## best..... 8.240461e+02
## mean..... 8.148778e+02
## variance..... 3.199908e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.113867e+02
```

##	variance	1.584614e+02
##	var 3:	
##	best	6.326810e+02
##	mean	6.248500e+02
##	variance	3.497067e+03
##	var 4:	
##	best	7.505777e+02
##	\mathtt{mean}	7.418880e+02
##	variance	3.622586e+02
##	var 5:	
##	best	5.093254e+01
##	\mathtt{mean}	6.406204e+01
##	variance	5.481311e+03
##	var 6:	
##	best	1.506793e+02
##	\mathtt{mean}	1.518137e+02
##	variance	6.671284e+02
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.595718e+02
##	variance	3.111273e+02
##	var 8:	
##	best	6.699284e+02
##	mean	6.596917e+02
##	variance	5.989670e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.451663e+02
##	variance	7.820707e+02
##	var 10:	
##	best	1.195810e+02
##	mean	1.206361e+02
##	variance	2.543895e+01
##	var 11:	
##	best	7.781697e+02
##	mean	7.751251e+02
##	variance	4.689426e+02
##	var 12:	
##	best	6.113928e+02
##	mean	6.111507e+02
##	variance	1.611105e+02
##	var 13:	
##	best	1.193314e+02
##	mean	1.231713e+02
##	variance	
##	var 14:	
##	best	6.011877e+02
##	mean	
##	variance	
##	var 15:	
##		1.328365e+02
##	mean	
##	variance	
##	var 16:	2

##	best	1.633113e+02
##	\mathtt{mean}	1.666287e+02
##	variance	4.376474e+02
##	var 17:	
##	best	8.877037e+02
##	mean	8.846844e+02
##	variance	1.556121e+02
##	var 18:	
##	best	5.749947e+02
##	mean	5.731678e+02
##	variance	6.167249e+02
##	var 19:	0.10/2400/02
##	best	9.311189e+02
##		9.184914e+02
	mean	
##	variance	3.254675e+03
##	var 20:	4 400474 :04
##	best	1.402471e+01
##	mean	1.889346e+01
##	variance	7.588710e+02
##	var 21:	0 000507 .00
##	best	2.682507e+02
##	mean	2.786734e+02
##	variance	2.615464e+03
##	var 22:	4 007446 : 04
##	best	4.807116e+01
##	mean	4.904101e+01
##	variance	3.056684e+01
##	var 23:	0.005000 .00
##	best	8.225830e+02
##	mean	8.203915e+02
##	variance	2.123641e+02
##	var 24:	4 004000 :04
##	best	1.891909e+01
##	mean	2.906579e+01
##	variance	7.263226e+03
##	var 25:	
##	best	9.166215e+02
##		1.702348e+03
	var 26:	
##		1.748745e+01
##	\mathtt{mean}	4.075086e+01
##	variance	8.805608e+03
##	var 27:	
##	best	
##	mean	
##	variance	5.783813e+02
##	var 28:	
##	best	
##	mean	4.482040e+01
##	variance	7.807764e+02
##	var 29:	
##	best	
##	mean	4.097332e+02

##	variance	2.957428e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.571582e+02
##	variance	1.735931e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.533760e+02
##	variance	2.477648e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.893026e+02
##	variance	4.612641e+01
##	var 33:	
##	best	3.948430e+02
##	mean	3.982848e+02
##	variance	2.947037e+03
##	var 34:	4 000000
##	best	4.828862e+01
##	mean	5.432008e+01
##	variance	1.416560e+03
##	var 35:	
##	best	2.692335e+02
##	mean	2.764873e+02
##	variance	2.813301e+03
##	var 36:	4 074004 :04
##	best	4.871291e+01
##	mean	6.130672e+01
##	variancevar 37:	4.060116e+03
##		3.919096e+02
##	best	3.951519e+02
##	variance	4.694748e+03
##	var 38:	4.0347406103
##	best	3.230480e+02
##	mean	3.303761e+02
##	variance	3.782740e+03
##	var 39:	0.1021400100
##	best	5.592648e+02
##	mean	5.579366e+02
##	variance	1.218808e+02
##	var 40:	
##	best	1.481206e+02
##	mean	1.543939e+02
##	variance	1.117498e+03
##	var 41:	
##	best	1.670743e+02
##	mean	1.703291e+02
##	variance	1.478827e+03
##	var 42:	
##	best	2.038571e+02
##	mean	2.167264e+02
##	variance	5.515275e+03
##	var 43:	

```
## best..... 2.450767e+02
## mean..... 2.483111e+02
## variance..... 5.048078e+02
## var 44:
## best..... 9.090666e+02
## mean..... 9.000397e+02
## variance..... 6.727699e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.334899e+02
## variance..... 1.440303e+03
##
## GENERATION: 36
## Lexical Fit..... 2.540867e-04 4.530342e-04 1.021089e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 66, #Total UniqueCount: 2507
## var 1:
## best..... 8.240461e+02
## mean..... 8.205375e+02
## variance..... 9.494025e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.181594e+02
## variance..... 1.607319e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.247109e+02
## variance..... 2.565505e+03
## var 4:
## best..... 7.505777e+02
## mean..... 7.353554e+02
## variance..... 3.740803e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.613154e+01
## variance..... 8.209219e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.545511e+02
## variance..... 1.606287e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.725139e+02
## variance..... 3.607813e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.628335e+02
## variance..... 2.278431e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.300124e+02
## variance..... 7.384475e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.266367e+02
```

##	variance	2.285809e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.627297e+02
##	variance	7.228397e+03
##	var 12:	
##	best	6.113928e+02
##	\mathtt{mean}	6.063194e+02
##	variance	1.142602e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.223120e+02
##	variance	4.262131e+02
##	var 14:	
##	best	6.011877e+02
##	mean	5.958774e+02
##	variance	1.678174e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.524489e+02
##	variance	6.853966e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.771663e+02
##	variance	6.911145e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.725459e+02
##	variance	6.385955e+03
##	var 18:	
##	best	5.749947e+02
##	mean	5.635854e+02
##	variance	4.758770e+03
##	var 19:	
##	best	9.311189e+02
##	mean	9.172165e+02
##	variance	5.793004e+03
##	var 20:	
##	best	1.402471e+01
##	mean	2.182676e+01
##	variance	1.209493e+03
##	var 21:	
##	best	2.682507e+02
##	mean	2.775873e+02
##	variance	
##	var 22:	0.10.,000.00
##	best	4.807116e+01
##	mean	
##	variance	
##	var 23:	
##	best	8.225830e+02
##	mean	
##	variance	
##	var 24:	1.11.0000.00

##	best	1.891909e+01
##	\mathtt{mean}	2.669795e+01
##	variance	1.229927e+03
##	var 25:	
##	best	9.166215e+02
##	mean	9.095086e+02
##	variance	1.702081e+03
##	var 26:	
##	best	1.748745e+01
##	mean	3.630873e+01
##	variance	7.061529e+03
##	var 27:	
##	best	3.002178e+01
##	mean	4.721941e+01
##	variance	8.286660e+03
##	var 28:	0.2000000
##	best	3.973238e+01
##	mean	6.607650e+01
##	variance	1.330723e+04
##	var 29:	1.000,200,04
##	best	4.030825e+02
##	mean	4.046897e+02
##	variance	3.255202e+03
##	var 30:	3.200202e100
##	best	8.645341e+02
##	mean	8.484328e+02
##	variance	5.809256e+03
##	var 31:	3.003230e103
##	best	8.645241e+02
##	mean	8.451187e+02
##	variance	7.065830e+03
##	var 32:	7.00000000000
##	best	1.878311e+02
##	mean	2.050251e+02
##		8.153462e+03
##	variancevar 33:	0.1004020+00
##		3.948430e+02
	best mean	0.0101000
##		
##	variancevar 34:	2.1431210+03
		4 000060-104
##	mean	
##	meanvariance	
		0.4095230+02
##		0 6002250100
##	best mean	
##		
##	variancevar 36:	1.9/5110e+02
##		1 071001-101
##	best	
##	mean	
	variance	6.050686e+03
##		2 010000 - 100
##	best	
##	mean	3.9518126+02

```
## variance..... 1.042381e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.243260e+02
## variance..... 1.574430e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.515758e+02
## variance..... 1.839315e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.516312e+02
## variance..... 1.835150e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.708079e+02
## variance..... 1.064455e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.269441e+02
## variance..... 9.699893e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.555109e+02
## variance..... 5.906532e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.964614e+02
## variance..... 4.945622e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.299201e+02
## variance..... 3.591911e+03
##
## GENERATION: 37
## Lexical Fit..... 2.540867e-04 4.530342e-04 1.021089e-03 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 68, #Total UniqueCount: 2575
## var 1:
## best..... 8.240461e+02
## mean..... 8.228609e+02
## variance..... 3.663214e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.163877e+02
## variance..... 1.643328e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.307933e+02
## variance..... 1.459519e+03
## var 4:
## best..... 7.505777e+02
## mean..... 7.447211e+02
## variance..... 5.296908e+02
## var 5:
```

##	best	5.093254e+01
##	\mathtt{mean}	5.532555e+01
##	${\tt variance}$	8.337722e+02
##	var 6:	
##	best	1.506793e+02
##	mean	1.557229e+02
##	variance	7.031773e+02
##	var 7:	
##	best	1.604937e+02
##	mean	1.765004e+02
##	variance	7.351997e+03
##	var 8:	
##	best	6.699284e+02
##	mean	6.664535e+02
##	variance	8.358253e+02
##	var 9:	
##	best	9.497919e+02
##	mean	9.288811e+02
##	variance	9.211404e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.267512e+02
##	variance	2.124721e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.602337e+02
##	variance	6.951207e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.066812e+02
##	variance	1.831155e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.254491e+02
##	variance	3.635077e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.995937e+02
##		4.363116e+02
	var 15:	
##	best	1.328365e+02
##	mean	
	variance	1.172958e+04
##		
##		1.633113e+02
##	mean	1.678805e+02
	variance	1.308286e+03
##		
##	best	8.877037e+02
##	mean	
	variance	1.689942e+03
##	var 18:	_,0000120.00
##	best	5.749947e+02
##	mean	
		1.0002200.02

##	variance	2.429624e+03
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.125476e+02
##	variance	6.261050e+03
##	var 20:	
##	best	1.402471e+01
##	mean	3.274438e+01
##	variance	7.393319e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.693194e+02
##	variance	6.656644e+01
##	var 22:	
##	best	4.807116e+01
##	mean	5.552228e+01
##	variance	2.724686e+03
##	var 23:	
##	best	8.225830e+02
##	mean	8.103077e+02
##	variance	3.568001e+03
##	var 24:	
##	best	1.891909e+01
##	mean	2.356371e+01
##	variance	1.358278e+03
##	var 25:	
##	best	9.166215e+02
##	mean	9.010642e+02
##	variance	7.256007e+03
##	var 26:	
##	best	1.748745e+01
##	mean	2.737211e+01
##	variance	1.649133e+03
##	var 27:	
##	best	3.002178e+01
##	mean	3.966906e+01
##	variance	3.284424e+03
##	var 28:	
##	best	3.973238e+01
##	mean	4.877231e+01
##	variance	2.568696e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.065424e+02
##	variance	1.955774e+03
##	var 30:	1.0001110100
##	best	8.645341e+02
##	mean	8.520503e+02
##	variance	8.696909e+03
##	var 31:	0.0000000.00
##	best	8.6452419+02
##	mean	8.523656e+02
##		4.103137e+03
##	var 32:	1.1001016100
##	val UZ.	

##	best	1.878311e+02
##	\mathtt{mean}	1.928985e+02
##	variance	9.489832e+02
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.962743e+02
##	variance	1.450842e+03
##	var 34:	
##	best	4.828862e+01
##	\mathtt{mean}	6.002179e+01
##	variance	6.370893e+03
##	var 35:	
##	best	2.692335e+02
##	\mathtt{mean}	2.833323e+02
##	variance	5.990890e+03
##	var 36:	
##	best	4.871291e+01
##	mean	5.570378e+01
##	variance	1.759932e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.912577e+02
##	variance	4.111016e+02
##	var 38:	
##	best	3.230480e+02
##	mean	3.294308e+02
##	variance	1.953643e+03
##	var 39:	
##	best	5.592648e+02
##	mean	5.580759e+02
##	variance	3.836359e+03
##	var 40:	
##	best	1.481206e+02
##	mean	1.663729e+02
##	variance	6.124311e+03
##	var 41:	
##	best	1.670743e+02
##	mean	1.725537e+02
##	variance	1.706024e+03
##	var 42:	
##	best	2.038571e+02
##	mean	2.114419e+02
##	variance	
##	var 43:	
##	best	2.450767e+02
##	mean	2.453779e+02
##	variance	6.944247e+02
##	var 44:	
##	best	9.090666e+02
##	mean	
##		
##	best	7.366138e+02
##	mean	

```
## variance..... 2.416524e+03
##
## GENERATION: 38
## Lexical Fit..... 2.614878e-04 4.530342e-04 8.232972e-04 1.205139e-02 1.205139e-02 1.391657e-02
## #unique...... 61, #Total UniqueCount: 2636
## var 1:
## best..... 8.241433e+02
## mean..... 8.211760e+02
## variance..... 1.618485e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.209557e+02
## variance..... 6.150461e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.267046e+02
## variance..... 1.401769e+03
## var 4:
## best..... 7.425599e+02
## mean..... 7.413003e+02
## variance..... 9.246437e+02
## var 5:
## best..... 5.093254e+01
## mean..... 6.155948e+01
## variance..... 3.707822e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.588429e+02
## variance..... 2.382398e+03
## var 7:
## best..... 1.532574e+02
## mean..... 1.606451e+02
## variance..... 1.980617e+01
## var 8:
## best..... 6.491344e+02
## mean..... 6.693894e+02
## variance..... 1.813646e+01
## var 9:
## best..... 9.497919e+02
## mean..... 9.415967e+02
## variance..... 6.029593e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.326493e+02
## variance..... 7.954315e+03
## var 11:
## best..... 7.876502e+02
## mean..... 7.770296e+02
## variance..... 5.117868e+01
## var 12:
## best..... 6.113928e+02
## mean..... 6.110801e+02
## variance..... 4.220874e+02
## var 13:
```

##	best	1.193314e+02
##	mean	1.211850e+02
##	variance	1.305247e+02
##	var 14:	
##	best	6.011877e+02
##	mean	6.003540e+02
##	variance	2.380213e+01
##	var 15:	2.0002200 01
##	best	1.328365e+02
##	mean	1.357961e+02
##	variance	6.910255e+02
##	var 16:	0.9102556102
##		1.633113e+02
	best	
##	mean	1.707950e+02
##	variance	3.225720e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.692137e+02
##	variance	9.117988e+03
##	var 18:	
##	best	5.793627e+02
##	\mathtt{mean}	5.707013e+02
##	variance	5.744964e+02
##	var 19:	
##	best	9.324737e+02
##	\mathtt{mean}	9.214585e+02
##	variance	3.223334e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.199898e+01
##	variance	4.036352e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.715474e+02
##	variance	8.417602e+02
##	var 22:	
##	best	4.807116e+01
##	mean	5.248076e+01
##	variance	1.968922e+03
##	var 23:	
##	best	8.226058e+02
##	mean	
##	variance	
##	var 24:	
##	best	1.891909e+01
##	mean	
##	variance	
##	var 25:	V -
##	best	9.166215e+02
##	mean	
##	variance	
##	var 26:	
##	best	1.748745e+01
##	mean	
σ π		2.1120016.01

##	variance	7.521923e+02
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	3.534654e+01
##	variance	2.217824e+03
##	var 28:	
##	best	3.973238e+01
##	\mathtt{mean}	4.709410e+01
##	variance	2.676840e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.074933e+02
##	variance	1.903049e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.609899e+02
##	variance	2.144138e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.582287e+02
##	variance	1.974684e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.974242e+02
##	variance	4.441959e+03
##	var 33:	
##	best	3.928968e+02
##	mean	3.949412e+02
##	variance	3.789142e+01
##	var 34:	
##	best	4.828858e+01
##	mean	5.102765e+01
##	variance	3.761353e+02
##	var 35:	
##	best	2.711976e+02
##	mean	2.711649e+02
##	variance	1.892387e+01
##	var 36:	
##	best	
##	mean	
##	variance	3.168968e+03
##	var 37:	0.040000.00
##	best	
##	mean	
##	variance	1.502200e+02
##	var 38:	
##	best	
##	mean	
##	variance	1.621471e+03
##	var 39:	
##	best	
##	mean	
##	variance	3.722861e+02
##	var 40:	

```
## best..... 1.481206e+02
## mean..... 1.568957e+02
## variance..... 6.211739e+03
## var 41:
## best..... 1.622250e+02
## mean..... 1.744361e+02
## variance..... 2.588046e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.045286e+02
## variance..... 4.214165e+01
## var 43:
## best..... 2.450767e+02
## mean..... 2.456843e+02
## variance..... 1.804238e+01
## var 44:
## best..... 9.090666e+02
## mean..... 8.964359e+02
## variance..... 6.939754e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.312416e+02
## variance..... 1.379887e+03
## GENERATION: 39
## Lexical Fit..... 3.014667e-04 4.530342e-04 8.712200e-04 1.205139e-02 1.205139e-02 2.487761e-02
## #unique..... 61, #Total UniqueCount: 2697
## var 1:
## best..... 8.240461e+02
## mean..... 8.219163e+02
## variance..... 1.195517e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.090712e+02
## variance..... 2.292865e+01
## var 3:
## best..... 6.326810e+02
## mean..... 6.286807e+02
## variance..... 1.407753e+03
## var 4:
## best..... 7.506025e+02
## mean..... 7.415516e+02
## variance..... 7.915410e+02
## var 5:
## best..... 5.093254e+01
## mean..... 6.285889e+01
## variance..... 6.603761e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.490536e+02
## variance..... 2.487155e+02
## var 7:
## best..... 1.604937e+02
## mean..... 1.605891e+02
```

##	variance	5.725186e+02
##	var 8:	
##	best	6.699284e+02
##	mean	6.564143e+02
##	variance	7.350024e+02
##	var 9:	
##	best	9.497919e+02
##	mean	9.335607e+02
##	variance	9.672910e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.315934e+02
##	variance	5.918407e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.780504e+02
##	variance	2.419225e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.127273e+02
##	variance	2.160878e+02
##	var 13:	
##	best	1.193314e+02
##	mean	1.199938e+02
##	variance	1.966295e+01
##	var 14:	1.0002000
##	best	6.011877e+02
##	mean	5.949783e+02
##	variance	3.033640e+03
##	var 15:	0.0000100.00
##	best	1.328365e+02
##	mean	1.332895e+02
##	variance	5.336206e+00
##	var 16:	0.0002000.00
##	best	1.633113e+02
##	mean	1.637476e+02
##	variance	5.105812e+01
##	var 17:	J.103012e.01
##	best	8.877037e+02
##	mean	8.804000e+02
##	variance	2.788383e+03
##	var 18:	2.1000000000
##	best	5.584245e+02
##	mean	5.640682e+02
##	variance	3.930660e+03
##	variancevar 19:	J. 350000e+05
##	best	9.311189e+02
##	mean	9.311189e+02 9.156541e+02
##	wariance	7.748039e+03
##	variancevar 20:	1.1400396+03
	best	1 //09/71 - 101
##	mean	1.402471e+01 1.814867e+01
	wariance	
##	variancevar 21:	<i>a.13233</i> 3€±02
##	var ZI:	

##	best	2.682507e+02
##	\mathtt{mean}	2.689804e+02
##	variance	2.388514e+01
##	var 22:	
##	best	4.807116e+01
##	mean	5.347740e+01
##	variance	2.788620e+03
##	var 23:	
##	best	8.226104e+02
##	mean	8.177969e+02
##	variance	8.020574e+02
##	var 24:	0.0200110.02
##	best	5.390528e-01
##	mean	2.638777e+01
##	variance	5.393697e+03
##	var 25:	3.333037e103
		0 166015-100
##	best	9.166215e+02 9.133339e+02
	mean	
##	variance	6.475780e+02
##	var 26:	1 7/07/5-101
##	best	1.748745e+01
##	mean	1.846603e+01
##	variance	2.187656e+01
##	var 27:	0 000170 .01
##	best	3.002178e+01
##	mean	3.704217e+01
##	variance	3.518638e+03
##	var 28:	
##	best	3.973238e+01
##	mean	4.680277e+01
##	variance	1.936361e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.061071e+02
##	variance	6.348770e+02
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	
##	variance	3.277477e+02
##	var 31:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	6.935414e+01
##	var 32:	
##	\mathtt{best}	
##	\mathtt{mean}	
##	${\tt variance}$	2.764093e+03
##	var 33:	
##	best	
##	mean	3.944486e+02
##	variance	1.529898e+01
##	var 34:	
##	best	
##	mean	5.566912e+01

```
## variance..... 4.535980e+03
## var 35:
## best..... 2.715954e+02
## mean..... 2.770491e+02
## variance..... 2.404981e+03
## var 36:
## best..... 4.871291e+01
## mean..... 7.278380e+01
## variance..... 6.001194e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.932213e+02
## variance..... 7.021804e+01
## var 38:
## best..... 3.230480e+02
## mean..... 3.246455e+02
## variance..... 1.497229e+02
## var 39:
## best..... 5.592648e+02
## mean..... 5.607260e+02
## variance..... 1.218264e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.532112e+02
## variance..... 2.615199e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.657247e+02
## variance..... 2.862438e+01
## var 42:
## best..... 2.038571e+02
## mean..... 2.075009e+02
## variance..... 9.170806e+02
## var 43:
## best..... 2.450767e+02
## mean..... 2.489430e+02
## variance..... 4.981221e+02
## var 44:
## best..... 9.090666e+02
## mean..... 9.021262e+02
## variance..... 4.248905e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.360952e+02
## variance..... 3.444115e+01
##
## GENERATION: 40
## Lexical Fit..... 3.014667e-04 4.530342e-04 8.712200e-04 1.205139e-02 1.205139e-02 2.487761e-02
## #unique...... 70, #Total UniqueCount: 2767
## var 1:
## best..... 8.240461e+02
## mean..... 8.143451e+02
## variance..... 5.719570e+03
## var 2:
```

##	best	1.080625e+02
##	\mathtt{mean}	1.102283e+02
##	variance	3.238826e+02
##	var 3:	
##	best	6.326810e+02
##	\mathtt{mean}	6.301898e+02
##	${\tt variance}$	3.080029e+03
##	var 4:	
##	best	7.506025e+02
##	\mathtt{mean}	7.432401e+02
##	variance	1.211663e+03
##	var 5:	
##	best	5.093254e+01
##	mean	6.201316e+01
##	variance	3.747354e+03
##	var 6:	
##	best	1.506793e+02
##	mean	1.580794e+02
##	variance	3.315000e+03
##	var 7:	
##	best	1.604937e+02
##	mean	1.674451e+02
##	variance	2.469975e+03
##	var 8:	
##	best	6.699284e+02
##	mean	6.646121e+02
##	variancevar 9:	2.681436e+02
##	best	9.497919e+02
##	mean	9.402481e+02
##	variance	5.404956e+03
##	var 10:	3.4043306.03
##	best	1.195810e+02
##	mean	1.243039e+02
##	variance	2.286798e+03
##	var 11:	2.2007300.00
##	best	7.781697e+02
##	mean	
	variance	
	var 12:	
##	best	6.113928e+02
##	mean	
##	variance	
##	var 13:	
##	best	1.193314e+02
##	mean	
##	variance	
##	var 14:	
##	best	6.011877e+02
##	mean	5.961343e+02
##	variance	2.176050e+03
##	var 15:	
##	best	
##	\mathtt{mean}	1.369281e+02

##	variance	1.441010e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.688106e+02
##	variance	1.880525e+03
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.644091e+02
##	variance	1.208237e+04
##	var 18:	
##	best	5.584245e+02
##	\mathtt{mean}	5.666012e+02
##	variance	4.235008e+02
##	var 19:	
##	best	9.311189e+02
##	\mathtt{mean}	9.186396e+02
##	variance	8.113009e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	3.348956e+01
##	variance	1.144832e+04
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.795328e+02
##	variance	3.736150e+03
##	var 22:	
##	best	4.807116e+01
##	mean	6.560072e+01
##	variance	1.158139e+04
##	var 23:	0 000404 .00
##	best	8.226104e+02
##	mean	8.011342e+02
##	variance	9.306584e+03
##	var 24:	E 200500 - 01
##	best	5.390528e-01 2.262364e+01
##	mean	5.120889e+01
	variancevar 25:	5.1208896+03
##	best	0 1660150100
##	mean	
##	variance	
##	variancevar 26:	4.5095556+05
##	best	1 7/97/50±01
##	mean	
##	variance	
##	var 27:	1.0433026103
##	best	3 0021786+01
##	mean	
##	variance	
##	var 28:	
##	best	3.973238e+01
##	mean	
##	variance	
##	var 29:	

##	best	4.030825e+02
##	\mathtt{mean}	4.068699e+02
##	variance	1.233445e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.554843e+02
##	variance	2.994225e+03
##	var 31:	
##	best	8.645241e+02
##	\mathtt{mean}	8.525766e+02
##	variance	3.464200e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	2.097012e+02
##	variance	1.004423e+04
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.920871e+02
##	${\tt variance}$	1.968196e+03
##	var 34:	
##	best	4.828857e+01
##	\mathtt{mean}	6.600147e+01
##	variance	1.010652e+04
##	var 35:	
##	best	2.715954e+02
##	\mathtt{mean}	2.909499e+02
##	variance	8.949626e+03
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	7.869761e+01
##	variance	1.018621e+04
##	var 37:	
##	best	3.919096e+02
##	mean	3.907445e+02
##	variance	8.558475e+02
##	var 38:	
##	best	3.230480e+02
##	\mathtt{mean}	
##		2.518504e+03
	var 39:	E ====================================
##	best	5.592648e+02
##		
		5.517943e+02
##	variance	
## ##	variancevar 40:	2.043978e+03
## ## ##	variancevar 40:	2.043978e+03 1.481206e+02
## ## ## ##	<pre>variance var 40: best mean</pre>	2.043978e+03 1.481206e+02 1.511708e+02
## ## ## ##	variancevar 40: best mean variance	2.043978e+03 1.481206e+02 1.511708e+02
## ## ## ## ##	<pre>variance var 40: best mean variance var 41:</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02
## ## ## ## ##	<pre>variance var 40: best mean variance var 41: best</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02 1.670743e+02
## ## ## ## ## ##	<pre>variance var 40: best mean variance var 41: best mean</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02 1.670743e+02 1.653518e+02
## ## ## ## ## ##	<pre>variance var 40: best mean variance var 41: best mean variance</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02 1.670743e+02 1.653518e+02
## ## ## ## ## ##	<pre>variance var 40: best mean variance var 41: best mean variance var 42:</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02 1.670743e+02 1.653518e+02 3.167941e+02
## ## ## ## ## ##	<pre>variance var 40: best mean variance var 41: best mean variance</pre>	2.043978e+03 1.481206e+02 1.511708e+02 2.553927e+02 1.670743e+02 1.653518e+02 3.167941e+02 2.038571e+02

```
## variance..... 3.000133e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.616210e+02
## variance..... 6.396268e+03
## var 44:
## best..... 9.090666e+02
## mean..... 9.017361e+02
## variance..... 3.697919e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.358497e+02
## variance..... 8.233326e+02
##
## GENERATION: 41
## Lexical Fit..... 3.362057e-04 5.853344e-04 7.771477e-04 1.205139e-02 1.205139e-02 2.487761e-02
## #unique...... 68, #Total UniqueCount: 2835
## var 1:
## best..... 8.240461e+02
## mean..... 8.123990e+02
## variance..... 5.472326e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.100179e+02
## variance..... 5.632182e+02
## var 3:
## best..... 6.326810e+02
## mean..... 6.309870e+02
## variance..... 1.667021e+02
## var 4:
## best..... 7.506025e+02
## mean..... 7.461369e+02
## variance..... 1.080472e+03
## var 5:
## best..... 5.093254e+01
## mean..... 6.268942e+01
## variance..... 6.367453e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.581701e+02
## variance..... 1.717859e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.685724e+02
## variance..... 3.759102e+03
## var 8:
## best..... 6.699284e+02
## mean..... 6.674045e+02
## variance..... 3.343464e+02
## var 9:
## best..... 9.497919e+02
## mean..... 9.394629e+02
## variance..... 3.860422e+03
## var 10:
```

##	best	1.195810e+02
##	mean	1.379925e+02
##	variance	8.310833e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.764920e+02
##	variance	1.525353e+03
##	var 12:	1.0200000.00
##	best	6.113928e+02
##	mean	6.106995e+02
##	variance	2.580822e+03
##	var 13:	2.3000226103
##	_	1.193314e+02
	best	
##	mean	1.208994e+02
##	variance	1.480325e+02
##	var 14:	0.044077
##	best	6.011877e+02
##	mean	5.878713e+02
##	variance	4.597360e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.514081e+02
##	variance	7.693438e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.677183e+02
##	variance	1.874389e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.730960e+02
##	variance	6.005876e+03
##	var 18:	
##	best	5.584245e+02
##	mean	5.599373e+02
##	variance	1.219900e+03
##	var 19:	
##	best	4.040678e+01
##	\mathtt{mean}	
##		1.060033e+04
##	var 20:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	6.758290e+03
##		
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	5.816927e+02
##	var 22:	
##	best	
##	\mathtt{mean}	
##	${\tt variance}$	1.328193e+04
##	var 23:	
##	best	
##	\mathtt{mean}	8.172708e+02

##	variance	1.428971e+03
##	var 24:	
##	best	5.390528e-01
##	mean	1.659011e+01
##	variance	5.923832e+03
##	var 25:	
##	best	9.166215e+02
##	mean	9.098367e+02
##	variance	3.373253e+03
##	var 26:	
##	best	1.748745e+01
##	mean	2.672880e+01
##	variance	4.828504e+03
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	3.174432e+01
##	variance	7.828227e+01
##	var 28:	
##	best	3.973238e+01
##	\mathtt{mean}	5.643143e+01
##	variance	1.138233e+04
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.130850e+02
##	variance	5.269599e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.576397e+02
##	variance	2.710315e+03
##	var 31:	
##	best	9.671229e+02
##	\mathtt{mean}	8.745629e+02
##	variance	6.191654e+03
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.958951e+02
##	variance	2.095571e+03
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.994019e+02
##	variance	2.266987e+03
##	var 34:	
##	best	4.828857e+01
##	\mathtt{mean}	5.894393e+01
##	variance	3.518375e+03
##	var 35:	
##	best	2.715954e+02
##	\mathtt{mean}	2.785815e+02
##	${\tt variance}$	1.846348e+03
##	var 36:	
##	best	4.871291e+01
##	\mathtt{mean}	5.885589e+01
##	variance	1.292199e+03
##	var 37:	

```
## best..... 3.919096e+02
## mean..... 4.015198e+02
## variance..... 3.508765e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.289350e+02
## variance..... 1.144956e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.665363e+02
## variance..... 2.095202e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.543043e+02
## variance..... 3.271150e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.767828e+02
## variance..... 2.939701e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.130492e+02
## variance..... 2.475055e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.550934e+02
## variance..... 4.221431e+03
## var 44:
## best..... 9.090666e+02
## mean..... 9.044153e+02
## variance..... 2.687546e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.315659e+02
## variance..... 2.385129e+03
## GENERATION: 42
## Lexical Fit..... 3.707495e-04 3.921911e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 63, #Total UniqueCount: 2898
## var 1:
## best..... 8.240461e+02
## mean..... 8.162784e+02
## variance..... 3.185108e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.212114e+02
## variance..... 8.500218e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.297127e+02
## variance..... 7.858627e+02
## var 4:
## best..... 7.506025e+02
## mean..... 7.434434e+02
```

##	variance	2.827209e+03
##	var 5:	
##	best	5.093254e+01
##	\mathtt{mean}	5.463602e+01
##	variance	8.641079e+02
##	var 6:	
##	best	1.506793e+02
##	\mathtt{mean}	1.510920e+02
##	variance	1.910344e+01
##	var 7:	
##	best	1.604937e+02
##	\mathtt{mean}	1.649847e+02
##	variance	2.654069e+03
##	var 8:	
##	best	6.699284e+02
##	\mathtt{mean}	6.608845e+02
##	variance	3.790912e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.430214e+02
##	variance	4.683807e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.242694e+02
##	variance	2.280085e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.768745e+02
##	variance	6.070319e+01
##	var 12:	
##	best	6.113928e+02
##	mean	6.045814e+02
##	variance	2.908940e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.244672e+02
##	variance	1.156534e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.978876e+02
##	variance	5.960180e+02
##	var 15:	
##	best	1.328365e+02
##	mean	1.381980e+02
##	variance	
##	var 16:	
##		1.633113e+02
##		1.628785e+02
##	variance	1.524601e+01
##	var 17:	1.0210010.01
##	best	8.877037e+02
##	mean	
##	variance	
##	var 18:	3.0110000.00
ππ	vai io.	

##	best	5.584245e+02
##	\mathtt{mean}	5.456642e+02
##	variance	5.201679e+03
##	var 19:	
##	best	2.620862e+01
##	mean	5.696699e+02
##	variance	1.675767e+05
##	var 20:	
##	best	1.402471e+01
##	mean	2.320488e+01
##	variance	4.175673e+03
##	var 21:	
##	best	2.682507e+02
##	mean	2.806309e+02
##	variance	5.853514e+03
##	var 22:	
##	best	4.807116e+01
##	mean	5.775406e+01
##	variance	7.925548e+03
##	var 23:	
##	best	8.226104e+02
##	mean	8.161014e+02
##	variance	2.212160e+03
##	var 24:	
##	best	5.390528e-01
##	mean	5.377473e+00
##	variance	9.243125e+02
##	var 25:	
##	best	9.166215e+02
##	mean	9.070786e+02
##	variance	5.515942e+03
##	var 26:	
##	best	1.748745e+01
##	mean	2.782211e+01
##	variance	3.782707e+03
##	var 27:	
##	best	3.002178e+01
##	mean	3.733032e+01
##	variance	2.787171e+03
##	var 28:	
##	best	3.973238e+01
##	mean	5.270950e+01
##	variance	4.811676e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.026691e+02
##	${\tt variance}$	1.583860e+03
##	var 30:	
##	best	8.645341e+02
##	\mathtt{mean}	8.472828e+02
##	${\tt variance}$	8.880549e+03
##	var 31:	
##	best	
##	\mathtt{mean}	9.160594e+02

## variance	3.057018e+03
## var 32:	
## best	1.878311e+02
## mean	1.877456e+02
## variance	4.277234e+01
## var 33:	
## best	3.948430e+02
## mean	4.009162e+02
## variance	1.311509e+03
## var 34:	
## best	4.828857e+01
## mean	4.908807e+01
## variance	1.719194e+01
## var 35:	
## best	2.715954e+02
## mean	2.721188e+02
## variance	1.722244e+01
## var 36:	
## best	4.871291e+01
## mean	6.140585e+01
## variance	5.791347e+03
## var 37:	
## best	3.919096e+02
## mean	3.933248e+02
## variance	9.193734e+02
## var 38:	0.100101010
## best	3.230480e+02
## mean	3.256107e+02
## variance	2.583730e+02
## var 39:	2.0001000.02
## best	5.592648e+02
## mean	5.523127e+02
## wariance	9.332342e+02
## var 40:	J.002042C102
## best	1.481206e+02
## mean	1.578567e+02
## wariance	4.088334e+03
## variance	4.0003340+03
## best	1.670743e+02
## mean	
	5.9462926+03
	0.020571-100
## best	
## variance	6.259590e+01
## var 43:	0 450707 :00
## best	
## mean	
## variance	1.606878e+03
## var 44:	
## best	
## mean	
## variance	1.743710e+03
## var 45:	

```
## best..... 7.366138e+02
## mean..... 7.264484e+02
## variance..... 5.822574e+03
##
## GENERATION: 43
## Lexical Fit..... 3.707495e-04 3.921911e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 66, #Total UniqueCount: 2964
## var 1:
## best..... 8.240461e+02
## mean..... 8.115950e+02
## variance..... 7.252124e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.143750e+02
## variance..... 3.032689e+03
## var 3:
## best..... 6.326810e+02
## mean..... 6.318924e+02
## variance..... 9.775264e+02
## var 4:
## best..... 7.506025e+02
## mean..... 7.467798e+02
## variance..... 1.250349e+03
## var 5:
## best..... 5.093254e+01
## mean..... 5.224538e+01
## variance..... 2.692997e+02
## var 6:
## best..... 1.506793e+02
## mean..... 1.730416e+02
## variance..... 1.006172e+04
## var 7:
## best..... 1.604937e+02
## mean..... 1.641384e+02
## variance..... 4.535233e+02
## var 8:
## best..... 6.699284e+02
## mean..... 6.653408e+02
## variance..... 2.621416e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.429606e+02
## variance..... 2.288131e+03
## var 10:
## best..... 1.195810e+02
## mean..... 1.410620e+02
## variance..... 1.071214e+04
## var 11:
## best..... 7.781697e+02
## mean..... 7.736159e+02
## variance..... 1.351180e+03
## var 12:
## best..... 6.113928e+02
## mean..... 6.038587e+02
```

##	variance	2.331991e+03
##	var 13:	
##	best	1.193314e+02
##	\mathtt{mean}	1.236459e+02
##	variance	6.803727e+02
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	5.931802e+02
##	variance	2.837556e+03
##	var 15:	
##	best	1.328365e+02
##	mean	1.433981e+02
##	variance	4.401840e+03
##	var 16:	
##	best	1.633113e+02
##	mean	1.645300e+02
##	variance	7.567323e+01
##	var 17:	
##	best	8.877037e+02
##	mean	8.844925e+02
##	variance	3.203645e+02
##	var 18:	
##	best	5.584245e+02
##	mean	5.540284e+02
##	variance	2.075344e+03
##	var 19:	0.000000.01
##	best	2.620862e+01
##	mean	1.304689e+02
##	variancevar 20:	7.975827e+04
##		1.402471e+01
##	best	2.019980e+01
##	mean	9.622140e+02
##	variancevar 21:	9.0221400+02
##	best	2.682507e+02
##	mean	2.724095e+02
##	variance	2.724095e+02 2.208826e+03
##	var 22:	2.2000206103
##		4.807116e+01
##		
##		
##	var 23:	0.0000000.00
##		8.226104e+02
##	mean	
##	variance	
##	var 24:	2.11 100 10 10
##	best	5.390528e-01
##	mean	
##	variance	
##	var 25:	
##	best	9.166215e+02
##	mean	
##	variance	6.037065e+03
##	var 26:	

##	best	1.748745e+01
##	\mathtt{mean}	2.567686e+01
##	variance	4.448106e+03
##	var 27:	
##	best	3.002178e+01
##	mean	4.452807e+01
##	variance	5.125884e+03
##	var 28:	
##	best	3.973238e+01
##	mean	5.114742e+01
##	variance	5.430027e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.079453e+02
##	variance	7.514463e+02
##	var 30:	
##	best	8.645341e+02
##	mean	8.573396e+02
##	variance	4.797560e+03
##	var 31:	
##	best	9.687583e+02
##	mean	9.453103e+02
##	variance	8.398669e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.999788e+02
##	variance	5.864577e+03
##	var 33:	
##	best	3.948430e+02
##	mean	3.983120e+02
##	variance	3.801753e+03
##	var 34:	
##	best	4.828857e+01
##	mean	5.646099e+01
##	variance	2.858060e+03
##	var 35:	
##	best	2.715954e+02
##		2.741653e+02
##	variance	
##	var 36:	
##	best	4.871291e+01
##	mean	
##	variance	
##		
##	best	3.919096e+02
##	mean	
##		
##	var 38:	
##	best	3.230480e+02
##	mean	
	variance	
##		
##	best	5.592648e+02
##		
- ••		

```
## variance..... 6.764397e+02
## var 40:
## best..... 1.481206e+02
## mean..... 1.693858e+02
## variance..... 1.281555e+04
## var 41:
## best..... 1.670743e+02
## mean..... 1.873286e+02
## variance..... 1.395577e+04
## var 42:
## best..... 2.038571e+02
## mean..... 2.089910e+02
## variance..... 2.584275e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.502180e+02
## variance..... 1.232951e+03
## var 44:
## best..... 9.090666e+02
## mean..... 8.941210e+02
## variance..... 7.135771e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.340041e+02
## variance..... 2.466162e+02
## GENERATION: 44
## Lexical Fit..... 4.323362e-04 4.581956e-04 6.279137e-04 7.232622e-03 7.232622e-03 2.487761e-02
## #unique..... 64, #Total UniqueCount: 3028
## var 1:
## best..... 8.240461e+02
## mean..... 8.156089e+02
## variance..... 1.775441e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.082972e+02
## variance..... 1.603028e+00
## var 3:
## best..... 6.341516e+02
## mean..... 6.149374e+02
## variance..... 9.824726e+03
## var 4:
## best..... 7.506025e+02
## mean..... 7.493542e+02
## variance..... 7.737972e+02
## var 5:
## best..... 5.093254e+01
## mean.... 6.504454e+01
## variance..... 9.145063e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.587823e+02
## variance..... 1.164149e+03
## var 7:
```

##	best	1.604937e+02
##	mean	1.653070e+02
##	variance	2.251222e+03
##	var 8:	
##	best	6.709075e+02
##	mean	6.638158e+02
##	${\tt variance}$	2.070368e+03
##	var 9:	
##	best	9.497919e+02
##	\mathtt{mean}	9.447484e+02
##	variance	7.916488e+02
##	var 10:	
##	best	1.195810e+02
##	\mathtt{mean}	1.262752e+02
##	variance	9.599554e+02
##	var 11:	
##	best	7.781697e+02
##	mean	7.623693e+02
##	variance	7.638743e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.085998e+02
##	variance	2.533717e+03
##	var 13:	1 100014-100
##	best	1.193314e+02 1.267293e+02
##	mean	1.267293e+02 1.758485e+03
##	variancevar 14:	1.7504050+03
##	best	6.011877e+02
##	mean	6.060712e+02
##	variance	2.091622e+03
##	var 15:	2.0010220.00
##	best	1.383216e+02
##	mean	1.440757e+02
##	variance	4.719454e+03
##	var 16:	11,101010
##	best	1.633113e+02
##	mean	
##		
##	var 17:	
##	best	8.877037e+02
##	mean	8.702113e+02
##	variance	7.426332e+03
##	var 18:	
##	best	5.584245e+02
##	mean	5.592425e+02
##	variance	4.084308e+03
##	var 19:	
##	best	2.165807e+01
##	mean	3.609148e+01
##	variance	5.571345e+03
##	var 20:	
##	best	
##	\mathtt{mean}	3.226020e+01

## variance	. 7.516804e+03
## var 21:	
## best	. 2.682507e+02
## mean	. 2.706140e+02
## variance	. 3.260812e+02
## var 22:	
## best	. 4.807116e+01
## mean	. 5.510207e+01
## variance	. 2.317833e+03
## var 23:	
## best	. 8.226104e+02
## mean	. 8.122881e+02
## variance	. 3.363516e+03
## var 24:	
## best	. 5.390528e-01
## mean	. 2.388553e+01
## variance	. 1.438738e+04
## var 25:	
## best	. 9.166215e+02
## mean	. 9.087050e+02
## variance	. 2.880234e+03
## var 26:	
## best	. 1.748745e+01
## mean	. 2.788885e+01
## variance	. 2.747421e+03
## var 27:	
## best	. 3.002178e+01
## mean	. 3.646499e+01
## variance	. 3.198580e+03
## var 28:	
## best	. 6.077818e+01
## mean	. 5.961073e+01
## variance	. 1.092052e+04
## var 29:	
## best	. 4.030825e+02
## mean	. 4.087499e+02
## variance	. 2.456997e+03
## var 30:	
## best	. 8.645341e+02
## mean	. 8.601957e+02
## variance	. 1.427160e+03
## var 31:	
## best	. 9.671229e+02
## mean	. 9.471514e+02
## variance	. 1.054150e+04
## var 32:	
## best	. 1.878311e+02
## mean	
## variance	
## var 33:	
## best	. 3.948430e+02
## mean	
## variance	
## var 34:	

```
## best..... 4.828857e+01
## mean..... 5.899628e+01
## variance..... 4.243964e+03
## var 35:
## best..... 2.715954e+02
## mean..... 2.781497e+02
## variance..... 1.828691e+03
## var 36:
## best..... 4.871291e+01
## mean.... 5.626124e+01
## variance..... 2.689863e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.940358e+02
## variance..... 1.173757e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.311444e+02
## variance..... 1.820447e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.567434e+02
## variance..... 2.423525e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.555247e+02
## variance..... 3.964103e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.748048e+02
## variance..... 1.263690e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.122131e+02
## variance..... 1.733660e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.550969e+02
## variance..... 5.372372e+03
## var 44:
## best..... 8.993915e+02
## mean..... 8.889487e+02
## variance..... 8.687423e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.291415e+02
## variance..... 4.177604e+03
##
## GENERATION: 45
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 70, #Total UniqueCount: 3098
## var 1:
## best..... 8.240461e+02
## mean..... 8.184102e+02
```

##	variance	1.431107e+03
##	var 2:	
##	best	1.080625e+02
##	\mathtt{mean}	1.226813e+02
##	variance	6.232043e+03
##	var 3:	
##	best	6.334511e+02
##	mean	6.286878e+02
##	variance	2.871428e+03
##	var 4:	
##	best	7.506025e+02
##	mean	7.425567e+02
##	variance	1.788051e+03
##	var 5:	
##	best	5.093254e+01
##	mean	6.632044e+01
##	variance	6.225776e+03
##	var 6:	
##	best	1.506793e+02
##	mean	1.660023e+02
##	variance	7.730491e+03
##	var 7:	
##	best	1.604937e+02
##	mean	1.672398e+02
##	variance	2.720879e+03
##	var 8:	21,200,00
##	best	6.704411e+02
##	mean	6.668666e+02
##	variance	4.678536e+02
##	var 9:	
##	best	9.497919e+02
##	mean	9.313090e+02
##	variance	9.928594e+03
##	var 10:	0.0200010 00
##	best	1.195810e+02
##	mean	1.378558e+02
##	variance	9.386144e+03
##	var 11:	0.0001110.00
##	best	7.781697e+02
##	mean	
##	variance	
##	var 12:	4.0720140.00
##	best	6.113928e+02
##	mean	
##	variance	
##	var 13:	1.2374396103
##		1.193314e+02
##		1.193314e+02 1.257197e+02
	meanvariance	
##	variancevar 14:	2.009/50e+U3
##		6 011077-100
##	best	
##	mean	
##	variance	4.153460e+02
##	var 15:	

##	best	1.357087e+02
##	\mathtt{mean}	1.408088e+02
##	variance	7.861565e+02
##	var 16:	
##	best	1.633113e+02
##	mean	1.691522e+02
##	variance	1.770429e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.750304e+02
##	variance	2.696083e+03
##	var 18:	
##	best	5.584245e+02
##	mean	5.481740e+02
##	variance	2.505839e+03
##	var 19:	2.0000000
##	best	2.060538e+01
##	mean	4.094282e+01
##	variance	8.696749e+03
##	var 20:	0.000.100
##	best	1.402471e+01
##	mean	3.228602e+01
##	variance	1.043831e+04
##	var 21:	1.0100010.01
##	best	2.682507e+02
##	mean	2.719850e+02
##	variance	1.184662e+03
##	var 22:	111010020 00
##	best	4.807116e+01
##	mean	4.907885e+01
##	variance	3.155334e+01
##	var 23:	
##	best	8.226104e+02
##	mean	8.168371e+02
##	variance	3.999497e+03
##	var 24:	0.000 10.0 00
##	best	5.390528e-01
##	mean	
##		6.638913e+03
	var 25:	
##	best	9.166215e+02
##	mean	
		1.305126e+04
##		
##	best	1.748745e+01
##	mean	
##	variance	1.354289e+04
##	var 27:	
##	best	3.002178e+01
##	mean	
	variance	
##	var 28:	
##	best	5.075274e+01
##	mean	
• ••		

##	variance	9.428485e+03
##	var 29:	
##	best	4.030825e+02
##	\mathtt{mean}	4.059151e+02
##	variance	3.322800e+02
##	var 30:	
##	best	8.645341e+02
##	mean	8.495793e+02
##	variance	5.198110e+03
##	var 31:	
##	best	9.667389e+02
##	mean	9.551571e+02
##	variance	4.398303e+03
##	var 32:	
##	best	1.878311e+02
##	mean	1.988284e+02
##	variance	3.734020e+03
##	var 33:	
##	best	3.948430e+02
##	mean	4.004942e+02
##	variance	4.130381e+03
##	var 34:	
##	best	4.805541e+01
##	mean	6.705202e+01
##	variance	8.076107e+03
##	var 35:	0.0.010.0
##	best	2.715954e+02
##	mean	2.805817e+02
##	variance	1.906834e+03
##	var 36:	
##	best	4.871291e+01
##	mean	5.915537e+01
##	variance	3.055391e+03
##	var 37:	0.0000010 00
##	best	3.919096e+02
##	mean	3.989938e+02
##	variance	3.138590e+03
##	var 38:	0.1000000
##	best	3.230480e+02
##	mean	3.217193e+02
##	variance	
##	var 39:	1.0110000.00
##	best	5 5026486+02
##	mean	
##	variance	
##	var 40:	4.0171006103
##	101	1.481206e+02
##		1.549892e+02
##	wariance	
##	variancevar 41:	2.0401/06+03
		1 6707420100
##	best	1.670743e+02
##	variance	4.4041020+02
##	var 42:	

```
## best..... 2.038571e+02
## mean..... 2.132463e+02
## variance..... 4.683007e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.531100e+02
## variance..... 3.224303e+03
## var 44:
## best..... 9.040004e+02
## mean..... 8.931095e+02
## variance..... 4.010434e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.218409e+02
## variance..... 5.700287e+03
##
## GENERATION: 46
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 70, #Total UniqueCount: 3168
## var 1:
## best..... 8.240461e+02
## mean..... 8.176066e+02
## variance..... 1.465363e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.114019e+02
## variance..... 4.949147e+02
## var 3:
## best..... 6.334511e+02
## mean..... 6.278641e+02
## variance..... 2.716838e+03
## var 4:
## best..... 7.506025e+02
## mean..... 7.462338e+02
## variance..... 3.747192e+03
## var 5:
## best..... 5.093254e+01
## mean..... 7.349414e+01
## variance..... 1.039926e+04
## var 6:
## best..... 1.506793e+02
## mean..... 1.623552e+02
## variance..... 3.592032e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.660293e+02
## variance..... 1.910989e+03
## var 8:
## best..... 6.704411e+02
## mean..... 6.632163e+02
## variance..... 3.097375e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.387171e+02
```

##	variance	4.576013e+03
##	var 10:	
##	best	1.195810e+02
##	\mathtt{mean}	1.310309e+02
##	variance	3.178749e+03
##	var 11:	
##	best	7.781697e+02
##	\mathtt{mean}	7.698887e+02
##	variance	4.232352e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.042722e+02
##	variance	5.052202e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.229780e+02
##	variance	8.132326e+02
##	var 14:	6 011077-100
##	best	6.011877e+02 6.024250e+02
##	mean	9.217220e+02
##	variancevar 15:	9.21/2200+01
##	best	1.357087e+02
##	mean	1.590989e+02
##	variance	1.366151e+04
##	var 16:	1.3001316104
##	best	1.633113e+02
##	mean	1.696478e+02
##	variance	1.336749e+03
##	var 17:	
##	best	8.877037e+02
##	mean	8.787796e+02
##	variance	1.314217e+03
##	var 18:	
##	best	5.584245e+02
##	mean	5.625126e+02
##	variance	1.881631e+03
##	var 19:	
##	best	2.060538e+01
##	mean	2.359187e+01
##	variance	2.019431e+02
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.741537e+01
##	variance	6.208221e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.729014e+02
##	${\tt variance}$	3.206181e+03
##	var 22:	
##	best	
##	${\tt mean}$	
##	variance	2.906659e+03
##	var 23:	

##	best	8.226104e+02
##	\mathtt{mean}	8.218424e+02
##	variance	4.207447e+01
##	var 24:	
##	best	5.390528e-01
##	mean	1.892133e+01
##	variance	8.142959e+03
##	var 25:	
##	best	9.166215e+02
##	mean	8.996113e+02
##	variance	6.220079e+03
##	var 26:	0.2200796+03
		1 740745-101
##	best	1.748745e+01
##	mean	2.388630e+01
##	variance	2.207776e+03
##	var 27:	
##	best	3.002178e+01
##	\mathtt{mean}	4.541883e+01
##	${\tt variance}$	6.415018e+03
##	var 28:	
##	best	5.075274e+01
##	mean	6.007663e+01
##	variance	4.244602e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.034466e+02
##	variance	9.627723e+02
##	var 30:	0.0211200102
##	best	8.645341e+02
##	mean	8.588067e+02
##	variance	1.824473e+03
		1.0244/30+03
##	var 31:	0 007000 .00
##	best	9.667389e+02
##	mean	9.458465e+02
##	variance	1.387470e+04
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	
##	variance	5.301447e+03
##	var 33:	
##	best	3.948430e+02
##	mean	3.934104e+02
##	variance	1.865363e+02
##	var 34:	
##	best	4.805541e+01
##	mean	
##	variance	
##	var 35:	
##	best	2.715954e+02
##	mean	
TT TT	moun	2.0002040102
	wariance	6 512/012+02
##		6.512491e+03
## ##	var 36:	
##		4.871291e+01

```
## variance..... 6.496528e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.918157e+02
## variance..... 1.498233e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.305448e+02
## variance..... 3.808630e+03
## var 39:
## best..... 5.592648e+02
## mean..... 5.565128e+02
## variance..... 2.720515e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.742477e+02
## variance..... 1.265708e+04
## var 41:
## best..... 1.670743e+02
## mean..... 1.755924e+02
## variance..... 1.768563e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.065554e+02
## variance..... 7.114736e+02
## var 43:
## best..... 2.450767e+02
## mean..... 2.520805e+02
## variance..... 1.661151e+03
## var 44:
## best..... 9.040004e+02
## mean..... 8.946358e+02
## variance..... 2.358334e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.280337e+02
## variance..... 6.581818e+03
##
## GENERATION: 47
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 69, #Total UniqueCount: 3237
## var 1:
## best..... 8.240461e+02
## mean..... 8.189982e+02
## variance..... 2.071278e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.151627e+02
## variance..... 2.181779e+03
## var 3:
## best..... 6.334511e+02
## mean..... 6.229488e+02
## variance..... 4.491134e+03
## var 4:
```

##	best	7.506025e+02
##	\mathtt{mean}	7.497911e+02
##	variance	2.014281e+02
##	var 5:	
##	best	5.093254e+01
##	mean	6.371812e+01
##	variance	6.189868e+03
##	var 6:	
##	best	1.506793e+02
##	mean	1.632782e+02
##	variance	5.046391e+03
##	var 7:	
##	best	1.604937e+02
##	mean	1.644474e+02
##	variance	1.183547e+03
##	var 8:	
##	best	6.704411e+02
##	mean	6.652953e+02
##	variance	1.386414e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.379031e+02
##	variance	3.429270e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.339091e+02
##	variance	7.463190e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.717402e+02
##	variance	1.516853e+03
##	var 12:	
##	best	6.113928e+02
##	mean	6.045868e+02
##	variance	2.287004e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.298756e+02
##	variance	4.548188e+03
##	var 14:	
##	best	6.011877e+02
##	mean	5.975672e+02
##	variance	1.622789e+03
##	var 15:	
##	best	1.357087e+02
##	mean	1.381605e+02
##	variance	4.227445e+02
##	var 16:	
##	best	1.633113e+02
##	mean	1.627609e+02
##	variance	9.871884e+01
##	var 17:	
##	best	8.877037e+02
##	mean	8.771149e+02

##	variance	3.121366e+03
##	var 18:	
##	best	5.584245e+02
##	\mathtt{mean}	5.646750e+02
##	variance	2.317321e+03
##	var 19:	
##	best	2.060538e+01
##	\mathtt{mean}	3.032607e+01
##	variance	3.230076e+03
##	var 20:	
##	best	1.402471e+01
##	mean	3.482630e+01
##	variance	1.322212e+04
##	var 21:	
##	best	2.682507e+02
##	mean	2.691750e+02
##	variance	4.009070e+01
##	var 22:	
##	best	4.807116e+01
##	mean	5.577671e+01
##	variance	2.131625e+03
##	var 23:	
##	best	8.226104e+02
##	mean	8.180849e+02
##	variance	2.311017e+03
##	var 24:	E 200E00- 01
##	best	5.390528e-01 1.229987e+01
##	mean	3.248687e+01
##	variancevar 25:	3.240007e+03
##	best	9.166215e+02
##	mean	9.126057e+02
##	variance	8.578787e+02
##	var 26:	0.070707070
##	best	1.748745e+01
##	mean	3.900560e+01
##	variance	1.219462e+04
##	var 27:	112101020 01
##	best	3.002178e+01
##	mean	
##	variance	
##	var 28:	0.1000000
##	best	5.075274e+01
##	mean	6.070099e+01
##	variance	6.034636e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.072502e+02
##	variance	
##	var 30:	
##	best	8.645341e+02
##	mean	8.494059e+02
##	variance	8.420076e+03
##	var 31:	

##	best	9.667389e+02
##	\mathtt{mean}	9.487850e+02
##	variance	1.335094e+04
##	var 32:	
##	best	1.878311e+02
##	\mathtt{mean}	1.873004e+02
##	variance	3.027960e+02
##	var 33:	
##	best	3.948430e+02
##	\mathtt{mean}	3.917621e+02
##	variance	2.079849e+03
##	var 34:	
##	best	4.805541e+01
##	\mathtt{mean}	5.483714e+01
##	variance	1.535070e+03
##	var 35:	
##	best	2.715954e+02
##	mean	2.802632e+02
##	variance	3.949393e+03
##	var 36:	
##	best	4.871291e+01
##	mean	6.560822e+01
##	variance	5.826095e+03
##	var 37:	
##	best	3.919096e+02
##	mean	3.931776e+02
##	variance	1.594626e+02
##	var 38:	
##	best	3.230480e+02
##	mean	3.279357e+02
##	variance	3.787514e+03
##	var 39:	
##	best	5.592648e+02
##	mean	5.586210e+02
##	variance	8.985485e+02
##	var 40:	
##	best	1.481206e+02
##	mean	1.584162e+02
##	variance	4.882068e+03
##	var 41:	
##	best	1.670743e+02
##	mean	1.897712e+02
##	variance	1.339938e+04
##	var 42:	
##	best	
##	\mathtt{mean}	2.123277e+02
##	variance	1.753844e+03
##	var 43:	
##	best	
##	mean	2.466662e+02
##	variance	3.562338e+02
##	var 44:	
##	best	9.040004e+02
##	mean	8.915921e+02

```
## variance..... 6.598565e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.292805e+02
## variance..... 2.127151e+03
##
## GENERATION: 48
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 68, #Total UniqueCount: 3305
## var 1:
## best..... 8.240461e+02
## mean..... 8.130866e+02
## variance..... 5.393341e+03
## var 2:
## best..... 1.080625e+02
## mean..... 1.114025e+02
## variance..... 8.824211e+02
## var 3:
## best..... 6.334511e+02
## mean..... 6.362949e+02
## variance..... 3.945243e+02
## var 4:
## best..... 7.506025e+02
## mean..... 7.482480e+02
## variance..... 4.677185e+02
## var 5:
## best..... 5.093254e+01
## mean..... 5.503241e+01
## variance..... 7.146998e+02
## var 6:
## best..... 1.506793e+02
## mean..... 1.645526e+02
## variance..... 6.449162e+03
## var 7:
## best..... 1.604937e+02
## mean..... 1.754693e+02
## variance..... 8.927988e+03
## var 8:
## best..... 6.704411e+02
## mean..... 6.673858e+02
## variance..... 2.191747e+03
## var 9:
## best..... 9.497919e+02
## mean..... 9.460525e+02
## variance..... 5.886253e+02
## var 10:
## best..... 1.195810e+02
## mean..... 1.323485e+02
## variance..... 5.788545e+03
## var 11:
## best..... 7.781697e+02
## mean..... 7.688624e+02
## variance..... 2.155331e+03
```

var 12:

##	best	6.113928e+02
##	mean	6.100760e+02
##	variance	1.346468e+03
##	var 13:	
##	best	1.193314e+02
##	mean	1.369510e+02
##	variance	7.219091e+03
##	var 14:	
##	best	6.011877e+02
##	\mathtt{mean}	6.013583e+02
##	${\tt variance}$	9.094405e+02
##	var 15:	
##	best	1.357087e+02
##	\mathtt{mean}	1.527592e+02
##	${\tt variance}$	8.501303e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.896601e+02
##	variance	1.401686e+04
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.784683e+02
##	variance	2.910060e+03
##	var 18:	
##	best	5.584245e+02
##	mean	5.609693e+02
##	variance	3.016483e+03
##	var 19:	
##	best	2.060538e+01
##	mean	2.978759e+01
##	variance	2.803296e+03
##	var 20:	1 400471 - 101
##	best	1.402471e+01 2.568108e+01
##	mean	7.239940e+03
##	variancevar 21:	7.2399406+03
##	best	2.682507e+02
##	mean	2.745181e+02
##		
##		1.0000020.00
##	best	4.807116e+01
##	mean	
	variance	
##	var 23:	_,
##	best	8.226104e+02
##	mean	
##	variance	4.763048e+03
##	var 24:	
##	best	5.390528e-01
##	mean	
##	variance	
##	var 25:	
##	best	9.166215e+02
##	mean	9.095547e+02

## variance	1.740286e+03
## var 26:	
## best	
## mean	4.013603e+01
## variance	1.003680e+04
## var 27:	
## best	3.002178e+01
## mean	4.227484e+01
## variance	4.879454e+03
## var 28:	
## best	5.075274e+01
## mean	5.920575e+01
## variance	2.223577e+03
## var 29:	
## best	4.030825e+02
## mean	4.103668e+02
## variance	4.908890e+03
## var 30:	
## best	8.645341e+02
## mean	8.530306e+02
## variance	3.088921e+03
## var 31:	
## best	9.667389e+02
## mean	9.495489e+02
## variance	5.865179e+03
## var 32:	1 070011-100
## best	1.878311e+02 1.949950e+02
	1.847455e+03
## variance ## var 33:	1.04/4556+05
## var 33. ## best	3.948430e+02
## mean	3.991302e+02
## wariance	
## variance	1.7090196103
## best	4.805541e+01
## mean	_ i_ii
## wariance	6.128868e+03
## var 35:	0.1200000.00
## best	2 715954e+02
## mean	
## variance	
## var 36:	1.0102170.00
## best	4.871291e+01
## mean	
## variance	
## var 37:	
## best	3.919096e+02
## mean	
## variance	
## var 38:	
## best	3.230480e+02
## mean	3.249192e+02
## variance	2.537803e+02
## var 39:	

```
## best..... 5.592648e+02
## mean..... 5.543228e+02
## variance..... 2.229693e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.499826e+02
## variance..... 9.133697e+02
## var 41:
## best..... 1.670743e+02
## mean..... 1.781211e+02
## variance..... 4.321584e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.221916e+02
## variance..... 6.840685e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.607558e+02
## variance..... 7.229656e+03
## var 44:
## best..... 9.040004e+02
## mean..... 8.923740e+02
## variance..... 5.356099e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.277308e+02
## variance..... 3.404896e+03
## GENERATION: 49
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 69, #Total UniqueCount: 3374
## var 1:
## best..... 8.240461e+02
## mean..... 8.212447e+02
## variance..... 5.009694e+02
## var 2:
## best..... 1.080625e+02
## mean..... 1.238411e+02
## variance..... 1.010535e+04
## var 3:
## best..... 6.334511e+02
## mean..... 6.311336e+02
## variance..... 7.530576e+02
## var 4:
## best..... 7.506025e+02
## mean..... 7.487289e+02
## variance..... 3.957917e+02
## var 5:
## best..... 5.093254e+01
## mean..... 5.848400e+01
## variance..... 2.039559e+03
## var 6:
## best..... 1.506793e+02
## mean..... 1.526325e+02
```

## variance	3.570653e+02
## var 7:	
## best	1.604937e+02
## mean	1.648948e+02
## variance	9.622565e+02
## var 8:	
## best	6.704411e+02
## mean	6.678014e+02
## variance	3.508756e+02
## var 9:	
## best	9.497919e+02
## mean	9.434063e+02
## variance	1.863967e+03
## var 10:	
## best	1.195810e+02
## mean	1.307421e+02
## variance	6.179707e+03
## var 11:	7 704607 .00
## best	7.781697e+02
## mean	7.782335e+02
## variance	1.406307e+02
## var 12:	6 440000 :00
## best	6.113928e+02
## mean	6.167109e+02
## variance	1.719402e+03
## var 13:	1.193314e+02
## best	1.193314e+02 1.256182e+02
## mean ## variance	1.305505e+03
## variance ## var 14:	1.3033036+03
## best	6.011877e+02
## mean	5.985289e+02
## wariance	4.411890e+02
## var 15:	4.4110000.02
## best	1.357087e+02
## mean	1.462995e+02
## variance	5.475486e+03
## var 16:	0.1101000
## best	1.633113e+02
## mean	
## variance	
## var 17:	
## best	8.877037e+02
## mean	8.834404e+02
## variance	8.766903e+02
## var 18:	
## best	5.584245e+02
## mean	
## variance	
## var 19:	
## best	2.060538e+01
## mean	3.015014e+01
## variance	3.458505e+03
## var 20:	

##	best	1.402471e+01
##	\mathtt{mean}	1.831372e+01
##	variance	1.414011e+03
##	var 21:	
##	best	2.682507e+02
##	\mathtt{mean}	2.743643e+02
##	variance	3.266046e+03
##	var 22:	
##	best	4.807116e+01
##	\mathtt{mean}	5.868547e+01
##	variance	4.744283e+03
##	var 23:	
##	best	8.226104e+02
##	\mathtt{mean}	8.150345e+02
##	variance	3.100486e+03
##	var 24:	
##	best	5.390528e-01
##	mean	5.220407e+00
##	variance	8.679262e+02
##	var 25:	
##	best	9.166215e+02
##	mean	9.100821e+02
##	variance	2.896159e+03
##	var 26:	
##	best	1.748745e+01
##	mean	2.151162e+01
##	variance	4.470442e+02
##	var 27:	
##	best	3.002178e+01
##	mean	3.052611e+01
##	variance	1.159380e+01
##	var 28:	
##	best	5.075274e+01
##	mean	5.076858e+01
##	variance	3.538618e+00
##	var 29:	
##	best	4.030825e+02
##	mean	4.109421e+02
##	variance	2.306944e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.640165e+02
##	variance	1.001088e+02
##	var 31:	
##	best	9.667389e+02
##	mean	9.506316e+02
##	variance	6.983194e+03
##	var 32:	
##	best	1.878311e+02
##	mean	
##		
##		
##	best	3.948430e+02
##	mean	

```
## variance..... 3.936663e+02
## var 34:
## best..... 4.805541e+01
## mean..... 4.924901e+01
## variance..... 4.153384e+01
## var 35:
## best..... 2.715954e+02
## mean..... 2.820432e+02
## variance..... 5.395677e+03
## var 36:
## best..... 4.871291e+01
## mean..... 5.601631e+01
## variance..... 2.745222e+03
## var 37:
## best..... 3.919096e+02
## mean..... 3.940717e+02
## variance..... 1.211140e+03
## var 38:
## best..... 3.230480e+02
## mean..... 3.247492e+02
## variance..... 2.898496e+02
## var 39:
## best..... 5.592648e+02
## mean..... 5.619244e+02
## variance..... 1.336186e+03
## var 40:
## best..... 1.481206e+02
## mean..... 1.516177e+02
## variance..... 1.328870e+03
## var 41:
## best..... 1.670743e+02
## mean..... 1.793061e+02
## variance..... 6.669138e+03
## var 42:
## best..... 2.038571e+02
## mean..... 2.032612e+02
## variance..... 3.980060e+01
## var 43:
## best..... 2.450767e+02
## mean..... 2.468739e+02
## variance..... 6.317001e+02
## var 44:
## best..... 9.040004e+02
## mean..... 9.042704e+02
## variance..... 2.507148e+01
## var 45:
## best..... 7.366138e+02
## mean..... 7.310763e+02
## variance..... 2.883611e+03
## GENERATION: 50
## Lexical Fit..... 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02
## #unique...... 70, #Total UniqueCount: 3444
## var 1:
```

##	best	8.240461e+02
##	\mathtt{mean}	8.166818e+02
##	variance	2.607720e+03
##	var 2:	
##	best	1.080625e+02
##	mean	1.144131e+02
##	variance	1.736525e+03
##	var 3:	
##	best	6.334511e+02
##	mean	6.252729e+02
##	variance	4.637093e+03
##	var 4:	
##	best	7.506025e+02
##	mean	7.488665e+02
##	variance	1.050828e+02
##	var 5:	
##	best	5.093254e+01
##	mean	6.253867e+01
##	variance	6.185298e+03
##	var 6:	
##	best	1.506793e+02
##	mean	1.572079e+02
##	variance	1.795607e+03
##	var 7:	
##	best	1.604937e+02
##	mean	1.747089e+02
##	variance	5.480857e+03
##	var 8:	
##	best	6.704411e+02
##	mean	6.656071e+02
##	variance	2.644696e+03
##	var 9:	
##	best	9.497919e+02
##	mean	9.371813e+02
##	variance	5.202931e+03
##	var 10:	
##	best	1.195810e+02
##	mean	1.374789e+02
##	variance	7.626281e+03
##	var 11:	
##	best	7.781697e+02
##	mean	7.695615e+02
##	variance	
##	var 12:	
##	best	6.113928e+02
##	mean	6.009235e+02
##	variance	
##	var 13:	
##		1.193314e+02
##	mean	
##	variance	
##	var 14:	
##	best	6.011877e+02
##	mean	

##	variance	1.385708e+03
##	var 15:	
##	best	1.357087e+02
##	\mathtt{mean}	1.470265e+02
##	variance	7.201512e+03
##	var 16:	
##	best	1.633113e+02
##	\mathtt{mean}	1.676791e+02
##	variance	3.182604e+03
##	var 17:	
##	best	8.877037e+02
##	\mathtt{mean}	8.764068e+02
##	variance	3.440650e+03
##	var 18:	
##	best	5.584245e+02
##	\mathtt{mean}	5.669815e+02
##	variance	3.055904e+03
##	var 19:	
##	best	2.060538e+01
##	\mathtt{mean}	3.628458e+01
##	variance	6.105468e+03
##	var 20:	
##	best	1.402471e+01
##	\mathtt{mean}	2.497713e+01
##	variance	2.871270e+03
##	var 21:	
##	best	2.682507e+02
##	mean	2.797301e+02
##	variance	4.411925e+03
##	var 22:	
##	best	4.807116e+01
##	mean	6.801884e+01
##	variance	8.608897e+03
##	var 23:	0 000101 :00
##	best	8.226104e+02
##	mean	8.133140e+02 3.553643e+03
##	variance	3.5536436+03
##	var 24:	E 200E20 - 01
##	best	5.390528e-01 1.749941e+01
	mean	
##	variancevar 25:	7.365550e+03
##	best	9.166215e+02
##	mean	9.158346e+02
##	variance	
##	variancevar 26:	1.0024040+01
##		1.748745e+01
##	mean	
##	wariance	2.338851e+01 1.350485e+03
##	variancevar 27:	1.3004006+03
##	best	3 0021785+01
##	mean	
##	variance	
##	var 28:	

##	best	5.075274e+01
##	\mathtt{mean}	5.885892e+01
##	variance	2.712211e+03
##	var 29:	
##	best	4.030825e+02
##	mean	4.059387e+02
##	variance	3.412512e+03
##	var 30:	
##	best	8.645341e+02
##	mean	8.610093e+02
##	variance	3.858621e+02
##	var 31:	
##	best	9.667389e+02
##	mean	9.636476e+02
##	variance	4.641470e+02
##	var 32:	
##	best	1.878311e+02
##	mean	1.947254e+02
##	variance	2.335888e+03
##	var 33:	
##	best	3.948430e+02
##	mean	3.994578e+02
##	variance	3.447440e+03
##	var 34:	
##	best	4.805541e+01
##	mean	5.959737e+01
##	variance	4.423468e+03
##	var 35:	
##	best	2.715954e+02
##	mean	2.690607e+02
##	variance	5.670042e+02
##	var 36:	
##	best	4.871291e+01
##	mean	5.511771e+01
##	variance	2.201438e+03
##	var 37:	
##	best	3.919096e+02
##	\mathtt{mean}	3.923785e+02
##	${\tt variance}$	4.718316e+02
##	var 38:	
##	best	3.230480e+02
##	mean	3.297549e+02
##	variance	4.717874e+03
##	var 39:	
##	best	5.592648e+02
##	mean	5.546276e+02
##	variance	3.001025e+03
##	var 40:	
##	best	1.481206e+02
##	mean	1.526627e+02
##	variance	1.674028e+03
##	var 41:	
##	best	1.670743e+02
##	mean	1.703627e+02

```
## variance..... 9.257528e+02
## var 42:
## best..... 2.038571e+02
## mean..... 2.113832e+02
## variance..... 1.608907e+03
## var 43:
## best..... 2.450767e+02
## mean..... 2.433968e+02
## variance..... 2.895207e+02
## var 44:
## best..... 9.040004e+02
## mean..... 8.986002e+02
## variance..... 1.286568e+03
## var 45:
## best..... 7.366138e+02
## mean..... 7.339644e+02
## variance..... 8.078930e+02
##
## 'wait.generations' limit reached.
## No significant improvement in 4 generations.
##
## Solution Lexical Fitness Value:
## 4.586050e-04 4.604406e-04 7.260933e-04 1.205139e-02 1.205139e-02 2.450731e-02 2.487761e-02 2.
## Parameters at the Solution:
## X[1]: 8.240461e+02
## X[2]: 1.080625e+02
## X[3]: 6.334511e+02
## X[4]: 7.506025e+02
## X[5]: 5.093254e+01
## X[6]: 1.506793e+02
## X[7]: 1.604937e+02
## X[8]: 6.704411e+02
## X[9]: 9.497919e+02
## X[10] : 1.195810e+02
## X[11] : 7.781697e+02
## X[12] : 6.113928e+02
## X[13] : 1.193314e+02
## X[14] : 6.011877e+02
## X[15] : 1.357087e+02
## X[16] : 1.633113e+02
## X[17] : 8.877037e+02
## X[18] : 5.584245e+02
## X[19] : 2.060538e+01
## X[20] : 1.402471e+01
## X[21] : 2.682507e+02
## X[22] : 4.807116e+01
## X[23] : 8.226104e+02
## X[24] : 5.390528e-01
## X[25] : 9.166215e+02
## X[26] : 1.748745e+01
## X[27] : 3.002178e+01
## X[28] : 5.075274e+01
```

```
## X[29] : 4.030825e+02
## X[30] : 8.645341e+02
## X[31] : 9.667389e+02
## X[32] : 1.878311e+02
## X[33] : 3.948430e+02
## X[34] : 4.805541e+01
## X[35] : 2.715954e+02
## X[36] : 4.871291e+01
## X[37] : 3.919096e+02
## X[38] : 3.230480e+02
## X[39] : 5.592648e+02
## X[40] : 1.481206e+02
## X[41] : 1.670743e+02
## X[42] : 2.038571e+02
## X[43] : 2.450767e+02
## X[44] : 9.040004e+02
## X[45] : 7.366138e+02
##
## Solution Found Generation 45
## Number of Generations Run 50
##
## Wed Jun 05 21:11:17 2019
## Total run time : 0 hours 4 minutes and 19 seconds
```

Table 7:

	Dependent variable:
	pctVV
treat	0.393**
	(0.191)
Constant	2.356^{***}
	(0.144)
Observations	545
\mathbb{R}^2	0.008
Adjusted R ²	0.006
Residual Std. Error	2.206 (df = 543)
F Statistic	$4.234^{**} (df = 1; 543)$
Note:	*p<0.1; **p<0.05; ***p<

*p<0.1; **p<0.05; ***p<0.01