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# **Problem Solving: Final Project**

# PART 1

## **Exercise 1: Banking system**

The stated problem can be summarized by the following table;

type	Machine line hours	Assembly line hours	Price Sold
Non-electric	2	1	60euros/unit
electric	1	2	111euros/unit

### Variables

Let x1 = the number of non-electric braking system

x2 = the number of electric braking system

#### Contraints

- Total machine line hours must not exceed 104

$$2x1+x2 \le 104$$

- Total assembly line hours must not exceed 76

$$x1 + 2x2 \le 76$$

Also  $x1 \ge 0$ ,  $x2 \ge 0$ .

Objective function: The aim is to maximize the profit of the company before maintenance

Max 
$$Z = 60x1+111x2$$
.

# **Exercise II: Food diet**

Food	Serving Size	Energy (kcal)	Protein (g)	Calcium (mg)	Price (cents / serving)	Limit (serving / day)
Oatmeal	28g	110	4	2	3	4
Chicken	100g	205	32	12	24	3
Egges	2 Large	160	13	54	13	2
Whole Milk	237 сс	160	8	285	9	8
Cherry Pie	170g	420	4	22	20	2
Pork & Beans	260g	260	14	80	19	2

### <u>Variables</u>

Let x1 = number of serving size of oatmeal

x2 = number of serving size of chicken

x3 = number of serving size of eggs

x4 = number of serving size of whole milk

x5 = number of serving size of Cherry Pie

x6 = number of serving size of Pork and Beans

#### Constraints

- Energy  $\geq 2000 \text{ kcal}$ 

 $110x1 + 205x2 + 160x3 + 160x4 + 420x5 + 260x5 \ge 2000$ kcal

- Proteins  $\geq 55g$ 

 $4x1 + 32x2 + 13x3 + 8x4 + 4x5 + 14x6 \ge 55g$ 

- Calcium ≥ 800 mg

 $2x1 + 12x2 + 54x3 + 285x4 + 22x5 + 80x6 \ge 800$ mg

- The limit of Serving size.
  - $x1 \le 4$
  - $x2 \le 3$
  - $x3 \le 2$
  - x4 ≤8
  - $x5 \le 2$

- $x6 \le 2$
- Non negativity constraint
  - $x1 \ge 0$ ,  $x2 \ge 0$ ,  $x3 \ge 0$ ,  $x4 \ge 0$ ,  $x5 \ge 0$ ,  $x6 \ge 0$ .

<u>Objective function</u>: This is the minimizing problem. Since the aim is to minimize the cost of the satisfactory diet.

Min 
$$Z = 3x1 + 24x2 + 13x3 + 9x4 + 20x5 + 19x6$$
.

## **Exercise III: Fresh meat**

The table below summarizes the problem stated.

Kind	Quantity of meat	Time of Labor	Selling price
First kind	3 kg	9 hours	15 euros
Second kind	2 kg	8 hours	9 euros

#### <u>Variables</u>

Let x1 = number of meat loaf of the first kind

x2 = number of meat loaf of the second kind

### Constraints

- The total number of meat loaf of the first and second kind must not exceed 120  $3x1 + 2x2 \le 120$ .
- The total number of time of labour of the first and second kind must not exceed 36.

$$9x1 + 8x2 \le 36.$$

- Also  $x1 \ge 0$ ,  $x2 \ge 0$ .

Objective Function: The aim is to maximize the revenue

Max 
$$z = 15x1 + 9 x2$$
.

Solving the equation graphically, we have;

Considering the equation 3x1 + 2x2 = 120,

When 
$$x1 = 0$$
,  $2x2 = 120$ ,  $x2 = 60$ . **Pt(0, 60)**

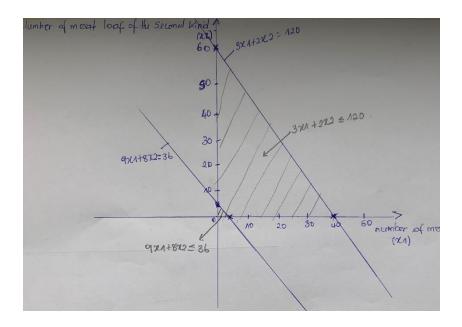
When 
$$x2 = 0$$
,  $3x1 = 120$ ,  $x1 = 40$  pt(40, 0)

Considering the equation 9x1 + 8x2 = 36,

When 
$$x1 = 0$$
,  $8x2 = 36$ ,  $x2 = 4.35$  **pt(0,4.35)**

When 
$$x2 = 0$$
,  $9x1 = 36$ ,  $x1 = 4$  **pt(4,0)**

Plotting the different points we have,



From the graph it is observed that the 2 constraint line does not intercept in the feasible region. Then the optimal solution is the point of intersection between of a constraint line and the axis.

Hence considering the objective function z = 15x1 + 9x2,

- At x1 = 40, x2 = 0, the revenue z = 15(40) + 9(0) = 600 euros.
- At x1 = 0, x2 = 60, the revenue z = 13(0) + 9(60) = 540euros.

Comparing the 2 resulting values, the optimal solution is z = 600 euros.

## **Exercise IV**: Mortgage Company

Loan/investment	Return (%)	Risk
First mortgages	9	3
Second mortgages	12	6
Personal Loans	15	8
Commercial Loans	8	2
Government Securities	6	1

### Variables

Let x1 =the amount invest on the first mortgage

x2 = the amount invest on the second mortgage

x3 = the amount invest on the personal loans

x4 = amount invest on commercial loans

x5 = amount invest on commercial securities

x6 = amount of money kept in a saving account

### Constraints

- The Total amount to finance the different investment must not exceed 100,000,000x1 + x2 + x3 + x4 + x5 + x6 = 100,000,000
- The average risk must not be more than 5

$$\frac{3x1 + 6x2 + 8x3 + 2x4 + 1x5}{x1 + x2 + x3 + x4 + x5} \le 5$$

Simplifying we have,

$$3x1 + 6x2 + 8x3 + 2x4 + 1x5 \le 5(x1 + x2 + x3 + x4 + x5)$$

$$= -2x1 + 1x2 + 3x3 - 3x4 - 4x5 \le 0$$

$$= 2x1 - 1x2 - 3x3 + 3x3 + 4x5 \ge 0$$

- Invest at least 20% of the loans in commercial loans

$$x4 \ge \frac{20}{100}(x1 + x2 + x3 + x4 + x5)$$

$$x4 \ge 0.2(x1 + x2 + x3 + x4 + x5)$$

- The amount of second mortgages and personal loans combined should not be higher than the amount in first mortgages.

$$x2 + x3 \le x1.$$

- Also  $x1, x2, x3, x4, x5, x6 \ge 0$ 

### Objective Function

- The aim is to maximize the average return

Max z = 
$$\frac{9x1 + 12x2 + 15x3 + 8x4 + 6x5 + 3x6}{x1 + x2 + x3 + x4 + x5 + x6}$$

### **PART II**

## **Exercise V: Mathematical modelling**

## Q1-Decision variables

Considering a chessboard as an N x N matrix. Each square is identified as an ordered pair (i,j) where i=the number of row of the square, j = the number of columns of the square.

- As decision variable, we considered the position of the queen when it is put on the chessboard represented by d<sub>i,j</sub>.

## **Q2-Constraints**

i) Row constraint

Each queen on the chessboard must not be found on the same row. That is one queen per row.

Row k, consist of all ordered pairs (k,j) where k,j = 1,2,...,N. It can be modelled as;

$$\textstyle \sum_{i=1}^N di, j \; \leq 1, \qquad \quad \forall \; j \; \in \{1,2,3..,N\} \label{eq:second-equation}$$

ii) Column Constraint

Not more than one queen on a column. Column k, consists of ordered pairs (i,k) where i,k = 1,2,...,N. It can be modelled as;

$$\textstyle \sum_{j=1}^n di, j \ \leq 1, \qquad \quad \forall \ i \in \{1,2,3..,N\}$$

- iii) Diagonal Constraint (No two queen must be found on the same diagonal)
- Minor Diagonal,k consists of all ordered pairs (i,j) such that i+j = k. (where k=2,...,2n). It can be modelled as;

$$\sum_{i=1}^{N} \sum_{j=1}^{N} di, j \le 1, \quad \forall k \in \{2,...,2N\}$$

$$i + j = k$$

- Major Diagonal k consist of (i,j) such that i-j=k. (k=1-n,...,n-1). It can be modelled as:

$$\sum\nolimits_{i=1}^{N} {\sum\nolimits_{j=1}^{N} {{\text{di,j}}} } \le 1, \quad \forall \; k \; \in \! \{1\text{-N,...,}N-1\}$$

## **Q3-Objective function**

The aim here is to maximize the number of position that the N-Queen on the chessboard with respect to the constraint.

Max 
$$Z = \sum_{i=1}^{N} \sum_{j=1}^{N} di, j$$

## **Exercise VI: Genetic Algorithm**

Q1-Implement the tournament selection procedure inside "def selection(self,individuals,k,tournsize=2)"

```
def selection(self, individuals, k, tournsize=2):
    chosen = []
    # Loop for selecting k individuals
    for _ in range(k):
        # Randomly select tournsize number of candidates from 'individuals'
        candidates = random.sample(individuals, tournsize)

# Find the minimum fitness value among the candidates
        minimum_fitness = min(candidate.fitness for candidate in candidates)

# Create a list of all candidates that have the minimum fitness
        candidates_with_min_fitness = [candidate for candidate in candidates if candidate.fitness ==
minimum_fitness]

# If multiple candidates have the same minimum fitness, randomly select one
    if len(candidates_with_min_fitness) > 1:
```

```
selected = random.choice(candidates_with_min_fitness)
else:
    # If only one candidate has the minimum fitness, select that candidate
    selected = candidates_with_min_fitness[0]

# Add the selected candidate to the list of chosen individuals
chosen.append(selected)

# Return the list of chosen individuals
return chosen
```

**Q2-** Implement the crossover operator inside "def crossover(self,ind1,ind2)"

```
def crossover(self, ind1, ind2):
     # Determine the length of the solution
     solution_length = len(ind1.solution)
     crossover\_index = solution\_length - 1
     for i in range(solution_length):
       # Check if all elements in ind1 up to position i are not in the remaining part of ind2
       if all(item not in ind2.solution[i:] for item in ind1.solution[:i + 1]):
          crossover\_index = i
     temp = ind1.solution[crossover_index:].copy()
     ind1.solution[crossover_index:] = ind2.solution[crossover_index:]
     ind2.solution[crossover_index:] = temp
     #return ind1, ind2
    return (Individual(solution=ind1.solution, fitness=ind1.fitness),
```

# Q3- Implement the mutation operator inside "def mutation(individual)"

## Q4- Setting 1

- N = 50
- $n_{gen} = 500$
- $n_{pop} = 10$
- $cx_{pb} = 0.2$
- $mut_{pb} = 0.8$
- $ind_{pb} = 0.02$

**Table 1: Setting** 

	Minimum		Average	Standard
Generation	Fitness	Maximum Fitness	Fitness	Deviation
1	24.733	42.667	32.937	5.345
2	24.9	35.667	29.547	3.768
3	23.3	32.4	27.26	2.878
4	23.867	29.8	25.913	2.1
5	22.8	28.26	24.98	1.87

6	21.867	27.4	24.26	1.708
7	21.633	26.5	23.847	1.532
8	21.033	25.8	23.183	1.352
9	20.667	25.533	22.717	1.439
10	20.033	24.367	22.04	1.306
11	19.6	24.333	21.71	1.43
12	19.267	24.167	21.187	1.456
13	18.6	23.233	20.51	1.414
14	18.367	22.467	20.12	1.298
15	18.067	22.267	19.777	1.262
16	17.8	22.533	19.677	1.444
17	17.467	21.967	19.327	1.374
18	17.233	21.6	18.913	1.353
19	17.1	21.0	18.57	1.224
20	16.633	21.033	18.303	1.3
21	16.3	20.467	17.957	1.242
22	16.233	20.367	17.823	1.343
23	15.9	20.567	17.537	1.49
24	15.367	20.133	17.337	1.421
25	15.333	19.833	17.14	1.415
26	14.933	20.1	16.77	1.555
27	14.733	19.3	16.537	1.403
28	14.6	18.867	16.263	1.295
29	14.467	18.6	16.12	1.261
30	14.367	18.3	15.95	1.244
31	14.2	18.4	15.72	1.317
32	13.933	18.433	15.6	1.366
33	13.667	18.4	15.42	1.439
34	13.3	17.867	15.113	1.385
35	13.033	18.1	15.01	1.541
36	12.833	17.667	14.65	1.471
37	12.667	16.8	14.38	1.297
38	12.367	17.033	14.163	1.394
39	12.333	16.467	13.85	1.308
40	12.033	16.2	13.613	1.27
41	11.867	16.333	13.643	1.401
42	11.7	16.367	13.483	1.438
43	11.633	16.467	13.413	1.5

45	11.167	16.2	13.093	1.491
46	11.067	15.867	12.933	1.476
47	11.033	14.933	12.55	1.232
48	10.667	15.1	12.473	1.362
49	10.567	14.9	12.253	1.358
50	10.567	14.2	12.02	1.178
51	10.467	14.933	12.08	1.42
52	10.533	14.933	11.897	1.37
53	10.333	14.3	11.723	1.273
54	10.2	14.033	11.623	1.245
55	10	14.8	11.727	1.471
56	10.067	14.4	11.703	1.372
57	10	13.6	11.54	1.163
58	9.933	14.267	11.52	1.35
59	9.833	14.2	11.457	1.355
60	9.767	13.867	11.423	1.313
61	9.533	14.067	11.22	1.417
62	9.267	14.2	11.24	1.522
63	9.233	14.2	11.15	1.524
64	9.267	13.767	10.937	1.421
65	9.1	13.233	10.7	1.247
66	9.033	13.067	10.583	1.278
67	8.967	13.567	10.657	1.439
68	8.867	12.933	10.463	1.306
69	8.8	12.833	10.447	1.272
70	8.833	13.3	10.58	1.425
71	8.867	13.267	10.45	1.389
72	8.8	13.067	10.417	1.348
73	8.667	13.167	10.337	1.404
74	8.6	12.4	10.093	1.234
75	8.567	12.567	10.17	1.297
76	8.6	13.033	10.18	1.45
77	8.5	12.867	9.927	1.379
78	8.267	12.567	9.87	1.393
79	8.167	12.7	9.897	1.503
80	8.167	12.567	9.887	1.438
00				

118 119	6.733 6.667	11.633 11.067	8.607 8.39	1.53 1.39
117	7	11.5	8.597	1.418
116	7.067	11.4	8.69	1.387
115	7.1	11.5	8.737	1.356
114	6.967	11.2	8.643	1.336
113	6.9	11.233	8.59	1.348
112	6.933	11.333	8.567	1.337
111	7.133	11.7	8.643	1.446
110	7.267	11.867	8.793	1.427
109	7.2	10.833	8.65	1.208
108	7.167	11.367	8.67	1.338
107	7.267	11.633	8.893	1.405
106	7.367	11.733	8.983	1.404
105	7.233	11.567	8.96	1.352
104	7.467	11.833	9.073	1.399
103	7.567	11.467	8.947	1.268
102	7.633	11.333	8.94	1.217
101	7.6	11	8.807	1.118
100	7.567	11.233	8.82	1.207
99	7.5	11.067	8.767	1.163
98	7.433	11.633	8.883	1.357
97	7.533	11.467	8.893	1.236
96	7.533	11.533	8.927	1.256
95	7.7	11.7	9.05	1.307
94	7.7	11.933	9.167	1.384
93	7.7	11.967	9.33	1.329
92	7.933	12.1	9.387	1.289
91	8	12.5	9.61	1.406
90	8.067	12.067	9.58	1.301
89	7.967	12.333	9.47	1.344
88	7.833	12.467	9.47	1.43
87	7.867	12.033	9.363	1.364
86	7.967	12.5	9.53	1.454
85	7.867	11.967	9.537	1.308
84	7.967	12.467	9.697	1.42
83	8.133	12.667	9.803	1.441
82	8.167	12.167	9.683	1.334

120	6767	11 222	0.402	1 204
120 121	6.767	11.233	8.403	1.394
121	6.7	10.8 10.667	8.303 8.047	1.291
123	6.633	10.007	8.157	1.267 1.295
123			8.13	1.293
125	6.7	10.433 10.933		
	6.767		8.233	1.312
126 127	6.8	10.522	8.203	1.38
	6.767	10.533	8.093	1.224
128	6.733	10.533	8.123	1.278
129	6.7	10.833	8.153	1.344
130	6.7	10.933	8.157	1.335
131	6.6	10.967	8.117	1.345
132	6.667	10.9	8.107	1.361
133	6.633	10.533	8.087	1.278
134	6.667	10.5	8.12	1.226
135	6.533	10.733	7.993	1.289
136	6.533	10.7	8.097	1.313
137	6.433	10.467	8.03	1.261
138	6.467	10.4	8.057	1.229
139	6.467	10.733	8.127	1.387
140	6.433	10.433	7.99	1.262
141	6.5	10.967	8.15	1.474
142	6.4	10.633	8.03	1.558
143	6.3	10.6	7.98	1.501
144	6.433	11.633	8.117	1.472
145	6.333	11.167	8.063	1.412
146	6.433	10.233	7.843	1.523
147	6.5	10.433	8.043	1.419
148	6.467	10.6	8.14	1.646
149	6.333	11	8.083	1.682
150	6.433	10.767	8.083	1.392
151	6.367	10.767	8.08	1.596
152	6.433	10.833	8.063	1.464
153	6.433	10.7	8.063	1.484
154	6.467	10.467	8.02	1.663
155	6.433	10.8	8.117	1.236
156	6.633	10.7	8.083	1.244
157	6.567	10.833	8.167	1.21

158	6.5	11.1	8.113	1.616
159	6.533	10.4	7.98	1.589
160	6.5	10.833	7.99	1.635
161	6.467	10.2	7.91	1.689
162	6.367	10.733	7.977	1.6
163	6.333	10.5	7.993	1.431
164	6.467	10.967	8.02	1.59
165	6.533	10.5	7.947	1.259
166	6.567	10.567	8.133	1.52
167	6.4	10.833	8.153	1.272
168	6.5	10.933	8.213	1.672
169	6.467	10.733	8.04	1.461
170	6.433	10.533	7.937	1.407
171	6.533	10.667	8.07	1.332
172	6.567	10.567	8.11	1.587
173	6.6	10.467	8.053	1.428
174	6.467	10.667	8.02	1.484
175	6.433	10.533	8.007	1.209
176	6.333	10.533	7.943	1.509
177	6.367	10.633	7.95	1.506
178	6.433	10.767	7.993	1.508
179	6.333	11.933	8.183	1.672
180	6.433	10.833	8.017	1.541
181	6.333	10.733	8.003	1.38
182	6.267	10.867	8.023	1.419
183	6.267	11.067	8.033	1.549
184	6.267	10.633	7.803	1.23
185	6.167	10.267	7.74	1.533
186	6.067	9.933	7.547	1.535
187	6	10.033	7.58	1.305
188	5.933	10.6	7.637	1.458
189	6.1	10.4	7.74	1.412
190	6.2	11.067	7.963	1.549
191	6.3	11.433	8.013	1.57
192	6.333	10.633	7.89	1.41
193	6.233	10.7	7.843	1.439
194	6.167	10.167	7.763	1.296
195	6.267	10.1	7.707	1.246

196	6.2	11.033	7.927	1.463
197	6.2	10.567	7.793	1.428
198	6.233	10.3	7.59	1.349
199	6.167	10.2	7.647	1.326
200	6.233	10.033	7.61	1.266
201	6.167	10.133	7.61	1.323
202	6.2	0.167	7.593	1.301
203	6.133	10.267	7.53	1.334
204	6.1	10.367	7.643	1.33
205	6	9.767	7.577	1.381
206	5.867	10.1	7.367	1.248
207	5.767	10.5	7.483	1.433
208	5.767	10.333	7.527	1.498
209	5.767	9.967	7.49	1.467
210	5.8	9.7	7.32	1.354
211	5.8	10.267	7.31	1.273
212	5.667	9.7	7.423	1.445
213	5.8	10.133	7.193	1.287
214	5.8	9.767	7.36	1.433
215	5.767	9.733	7.34	1.315
216	5.7	9.733	7.283	1.321
217	5.667	9.6	7.167	1.272
218	5.667	10.267	7.217	1.296
219	5.8	10.4	7.34	1.442
220	5.733	9.833	7.237	1.467
221	5.733	10.4	7.27	1.32
222	5.733	10.533	7.457	1.446
223	5.767	10	7.38	1.493
224	5.6	10.067	7.3	1.405
225	5.533	9.9	7.12	1.458
226	5.467	9.9	7.06	1.396
227	5.267	9.8	7.117	1.473
228	5.367	9.933	6.95	1.381
229	5.3	9.967	7.103	1.418
230	5.533	9.9	7.163	1.446
231	5.533	9.633	7.12	1.434
232	5.4	9.9	6.967	1.373
233	5.333	9.667	7.007	1.421

269 270	5.733 5.667	10.467 10.233	7.437 7.487	1.396 1.437
268	5.833	10.333	7.483	1.331
267	5.733	9.967	7.513	1.428
266	5.8	10.1	7.553	1.463
265	5.867	10.033	7.623	1.419
264	5.7	10.433	7.363	1.404
263	5.733	10.2	7.337	1.359
262	5.667	10.167	7.233	1.307
261	5.533	10	7.093	1.292
260	5.6	9.933	7.13	1.341
259	5.533	9.733	7.067	1.311
258	5.633	9.733	7.06	1.413
257	5.633	10	7.063	1.286
256	5.6	9.667	7.12	1.309
255	5.4	9.633	6.987	1.305
254	5.533	9.6	7.02	1.338
253	5.5	9.733	6.923	1.214
252	5.433	9.267	7.067	1.498
251	5.367	10.167	7.093	1.489
250	5.5	9.767	7.15	1.476
249	5.5	10.067	7.11	1.403
248	5.5	9.9	7.2	1.38
247	5.433	9.767	7.133	1.397
246	5.433	9.833	7.08	1.482
245	5.467	10.167	6.987	1.291
244	5.433	9.433	6.943	1.285
243	5.3	9.333	7.077	1.35
242	5.367	9.7	7.127	1.428
241	5.3	9.833	7.03	1.532
240	5.367	10.167	6.957	1.392
239	5.233	9.833	6.793	1.256
238	5.133	9.133	6.83	1.396
237	5.3	9.533	6.94	1.436
236	5.3	9.733	6.867	1.311
234	5.367 5.333	9.533 9.4	6.973 6.843	1.406 1.361

272	5.833	10.233	7.43	1.462
273	5.9	10.233	7.417	1.382
274	5.9	10.133	7.51	1.389
275	5.833	10.133	7.343	1.313
276	5.733	10.333	7.35	1.372
277	5.8	10.333	7.46	1.423
278	5.833	10.133	7.52	1.42
279	5.8	10.233	7.487	1.46
280	5.8	10.033	7.377	1.376
281	5.7	10.233	7.353	1.439
282	5.733	10.067	7.253	1.364
283	5.733	10.333	7.39	1.438
284	5.7	10.1	7.463	1.451
285	5.7	10.367	7.52	1.486
286	5.7	10.167	7.45	1.385
287	5.667	10.133	7.42	1.419
288	5.667	9.633	7.37	1.301
289	5.7	10.067	7.4	1.412
290	5.767	10.167	7.317	1.374
291	5.8	9.967	7.353	1.38
292	5.8	9.833	7.217	1.296
293	5.8	10.133	7.307	1.356
294	5.867	10.2	7.397	1.419
295	5.833	10.367	7.443	1.469
296	5.9	10.033	7.307	1.39
297	5.9	9.967	7.257	1.333
298	5.9	10.133	7.327	1.378
299	5.833	9.733	7.317	1.289
300	5.9	10.133	7.357	1.343
301	5.967	10.067	7.347	1.311
302	6.033	10.033	7.487	1.325
303	5.9	10.233	7.427	1.357
304	5.867	10.867	7.623	1.558
305	5.867	10.333	7.497	1.448
306	5.867	10.533	7.48	1.489
307	5.8	10.167	7.39	1.364
308	5.833	10.167	7.347	1.363
309	5.8	10.467	7.397	1.466

			ı	
310	5.867	10.033	7.29	1.307
311	5.933	9.9	7.437	1.317
312	5.867	10.133	7.59	1.369
313	5.9	10.2	7.44	1.367
314	5.867	10.033	7.293	1.31
315	5.833	9.8	7.313	1.319
316	5.8	10.233	7.233	1.361
317	5.833	9.733	7.2	1.236
318	5.9	10.033	7.22	1.322
319	5.833	9.8	7.183	1.333
320	5.867	10.1	7.28	1.343
321	5.867	10.2	7.417	1.368
322	6	10.367	7.493	1.413
323	6.033	9.933	7.407	1.265
324	5.9	9.933	7.41	1.249
325	6.033	10.067	7.51	1.272
326	6.067	10.233	7.603	1.35
327	6.033	10.5	7.597	1.453
328	5.9	10.533	7.54	1.217
329	5.933	10.067	7.423	1.333
330	5.9	10.6	7.417	1.333
331	5.867	10.367	7.357	1.503
332	5.867	10.6	7.39	1.223
333	5.867	10.2	7.3	1.275
334	5.9	9.8	7.3	1.319
335	5.933	9.733	7.347	1.428
336	5.967	10.167	7.343	1.499
337	5.9	10.067	7.423	1.337
338	5.933	10.067	7.54	1.458
339	5.9	10.3	7.557	1.22
340	5.967	10.6	7.573	1.291

342         5.9         10.1         7.513         1.401           343         5.833         10.067         7.417         1.542           344         5.833         9.933         7.47         1.309           345         5.9         10.7         7.71         1.326           346         5.933         10.233         7.55         1.284           347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533	241	<i>5</i> 0	10.267	7.542	1 102
343         5.833         10.067         7.417         1.542           344         5.833         9.933         7.47         1.309           345         5.9         10.7         7.71         1.326           346         5.933         10.233         7.55         1.284           347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867 <td>341</td> <td>5.9</td> <td>10.267</td> <td>7.543</td> <td>1.193</td>	341	5.9	10.267	7.543	1.193
344         5.833         9.933         7.47         1.309           345         5.9         10.7         7.71         1.326           346         5.933         10.233         7.55         1.284           347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133 <td>342</td> <td>5.9</td> <td>10.1</td> <td>7.513</td> <td>1.401</td>	342	5.9	10.1	7.513	1.401
345         5.9         10.7         7.71         1.326           346         5.933         10.233         7.55         1.284           347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133         7.47         1.261           360         6.0         10.1	343	5.833	10.067	7.417	1.542
346         5.933         10.233         7.55         1.284           347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133         7.47         1.261           360         6.0         10.1         7.59         1.273           361         6.033         10.167 <td>344</td> <td>5.833</td> <td>9.933</td> <td>7.47</td> <td>1.309</td>	344	5.833	9.933	7.47	1.309
347         5.967         10.2         7.547         1.269           348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133         7.47         1.261           360         6.0         10.1         7.59         1.273           361         6.033         10.167         7.6         1.213           362         5.967         10.0	345	5.9	10.7	7.71	1.326
348         5.933         10.033         7.403         1.28           349         6.033         9.7         7.407         1.426           350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133         7.47         1.261           360         6.0         10.1         7.59         1.273           361         6.033         10.167         7.6         1.213           362         5.967         10.0         7.53         1.268           363         6.0         10.5	346	5.933	10.233	7.55	1.284
349       6.033       9.7       7.407       1.426         350       5.967       9.933       7.343       1.426         351       5.933       10.133       7.397       1.374         352       5.967       9.833       7.357       1.341         353       5.933       10.3       7.437       1.488         354       5.967       9.867       7.38       1.404         355       5.967       10.5       7.51       1.373         356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.268         363       6.0       10.5       7.633       1.268	347	5.967	10.2	7.547	1.269
350         5.967         9.933         7.343         1.426           351         5.933         10.133         7.397         1.374           352         5.967         9.833         7.357         1.341           353         5.933         10.3         7.437         1.488           354         5.967         9.867         7.38         1.404           355         5.967         10.5         7.51         1.373           356         6.0         10.067         7.467         1.476           357         5.967         10.533         7.483         1.248           358         6.067         9.867         7.393         1.215           359         5.933         10.133         7.47         1.261           360         6.0         10.1         7.59         1.273           361         6.033         10.167         7.6         1.213           362         5.967         10.0         7.53         1.295           363         6.0         10.5         7.633         1.268	348	5.933	10.033	7.403	1.28
351       5.933       10.133       7.397       1.374         352       5.967       9.833       7.357       1.341         353       5.933       10.3       7.437       1.488         354       5.967       9.867       7.38       1.404         355       5.967       10.5       7.51       1.373         356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	349	6.033	9.7	7.407	1.426
352     5.967     9.833     7.357     1.341       353     5.933     10.3     7.437     1.488       354     5.967     9.867     7.38     1.404       355     5.967     10.5     7.51     1.373       356     6.0     10.067     7.467     1.476       357     5.967     10.533     7.483     1.248       358     6.067     9.867     7.393     1.215       359     5.933     10.133     7.47     1.261       360     6.0     10.1     7.59     1.273       361     6.033     10.167     7.6     1.213       362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	350	5.967	9.933	7.343	1.426
353       5.933       10.3       7.437       1.488         354       5.967       9.867       7.38       1.404         355       5.967       10.5       7.51       1.373         356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	351	5.933	10.133	7.397	1.374
354       5.967       9.867       7.38       1.404         355       5.967       10.5       7.51       1.373         356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	352	5.967	9.833	7.357	1.341
355       5.967       10.5       7.51       1.373         356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	353	5.933	10.3	7.437	1.488
356       6.0       10.067       7.467       1.476         357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	354	5.967	9.867	7.38	1.404
357       5.967       10.533       7.483       1.248         358       6.067       9.867       7.393       1.215         359       5.933       10.133       7.47       1.261         360       6.0       10.1       7.59       1.273         361       6.033       10.167       7.6       1.213         362       5.967       10.0       7.53       1.295         363       6.0       10.5       7.633       1.268	355	5.967	10.5	7.51	1.373
358     6.067     9.867     7.393     1.215       359     5.933     10.133     7.47     1.261       360     6.0     10.1     7.59     1.273       361     6.033     10.167     7.6     1.213       362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	356	6.0	10.067	7.467	1.476
359     5.933     10.133     7.47     1.261       360     6.0     10.1     7.59     1.273       361     6.033     10.167     7.6     1.213       362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	357	5.967	10.533	7.483	1.248
360     6.0     10.1     7.59     1.273       361     6.033     10.167     7.6     1.213       362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	358	6.067	9.867	7.393	1.215
361     6.033     10.167     7.6     1.213       362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	359	5.933	10.133	7.47	1.261
362     5.967     10.0     7.53     1.295       363     6.0     10.5     7.633     1.268	360	6.0	10.1	7.59	1.273
363 6.0 10.5 7.633 1.268	361	6.033	10.167	7.6	1.213
	362	5.967	10.0	7.53	1.295
364 5.867 10.067 7.55 1.413	363	6.0	10.5	7.633	1.268
	364	5.867	10.067	7.55	1.413

365	5.9	10.033	7.55	1.536
366	5.767	10.267	7.483	1.392
367	5.833	9.867	7.34	1.527
368	5.8	10.5	7.42	1.426
369	5.8	10.067	7.423	1.456
370	5.733	10.033	7.367	1.412
371	5.767	10.067	7.383	1.318
372	5.933	9.967	7.407	1.315
373	6.0	10.5	7.65	1.284
374	5.967	10.8	7.667	1.345
375	6.0	10.1	7.513	1.289
376	5.933	9.7	7.26	1.332
377	5.967	10.833	7.49	1.369
378	5.967	10.1	7.407	1.263
379	5.833	10.067	7.307	1.279
380	5.733	10.167	7.453	1.349
381	5.733	9.633	7.28	1.34
382	5.867	10.267	7.347	1.297
383	5.767	9.9	7.303	1.384
384	5.8	10.367	7.473	1.365
385	5.833	10.233	7.473	1.379
386	5.767	10.267	7.543	1.315
387	5.867	10.333	7.543	1.497
388	5.833	10.467	7.593	1.285
<u> </u>				

389	5.8	10.6	7.65	1.342
390	5.867	10.333	7.667	1.418
391	6.033	10.767	7.73	1.46
392	6.067	10.567	7.74	1.516
393	6.067	10.233	7.577	1.405
394	6.1	10.733	7.723	1.301
395	5.933	10.767	7.63	1.319
396	5.967	10.2	7.61	1.276
397	6.1	10.5	7.66	1.311
398	6.0	10.4	7.557	1.471
399	5.967	10.067	7.573	1.337
400	5.967	10.167	7.643	1.4
401	6.1	10.3	7.69	1.531
402	6.033	10.633	7.757	1.395
403	6.033	9.9	7.57	1.252
404	6.033	10.2	7.51	1.357
405	6.1	10.233	7.55	1.27
406	6.2	10.5	7.693	1.244
407	6.133	10.0	7.63	1.226
408	6.167	10.4	7.71	1.333
409	6.2	10.3	7.76	1.367
410	6.233	10.767	7.76	1.324
411	6.233	10.233	7.723	1.41
412	6.233	10.167	7.747	1.575

436	6.433	10.3	7.837	1.385
435	6.467	10.867	7.92	1.386
434	6.533	9.967	7.853	1.438
433	6.567	10.6	7.993	1.335
432	6.633	10.533	7.903	1.253
431	6.7	10.867	8.083	1.2
430	6.567	10.667	7.907	1.382
429	6.5	10.3	7.933	1.418
428	6.433	10.667	8.06	1.384
427	6.467	10.433	8.013	1.485
426	6.367	11.0	8.03	1.459
425	6.433	10.267	7.84	1.457
424	6.5	10.167	7.793	1.392
423	6.267	10.7	7.763	1.52
422	6.2	10.7	7.74	1.467
421	6.233	10.467	7.847	1.389
420	6.333	10.867	7.943	1.4
419	6.2	10.133	7.72	1.334
418	6.133	10.467	7.677	1.394
417	6.267	10.233	7.72	1.27
416	6.167	10.6	7.88	1.366
415	6.267	10.633	7.853	1.37
414	6.333	10.433	7.937	1.492
413	6.133	10.267	7.833	1.417

437	6.5	10.533	7.94	1.396
438	6.533	10.3	7.977	1.461
439	6.6	10.6	8.113	1.41
440	6.667	10.9	8.143	1.339
441	6.667	10.767	8.147	1.284
442	6.633	11.233	8.28	1.327
443	6.5	10.567	8.057	1.237
444	6.633	10.767	8.163	1.314
445	6.633	10.767	8.157	1.313
446	6.667	10.533	8.17	1.248
447	6.567	10.6	8.153	1.343
448	6.567	10.867	8.21	1.356
449	6.533	10.7	8.173	1.441
450	6.567	10.733	8.03	1.486
451	6.533	10.933	8.207	1.4
452	6.7	10.933	8.21	1.389
453	6.7	11.067	8.29	1.467
454	6.7	11.167	8.34	1.52
455	6.667	11.033	8.273	1.392
456	6.867	10.933	8.32	1.457
457	6.667	11.067	8.267	1.459
458	6.467	10.7	8.24	1.485
459	6.433	11.1	8.137	1.384
460	6.5	10.7	8.053	1.418

461	6.467	10.567	7.96	1.382
462	6.367	10.733	7.9	1.2
463	6.433	11.067	8.163	1.253
464	6.367	10.867	8.167	1.335
465	6.4	10.567	8.053	1.438
466	6.467	10.567	8.033	1.384
467	6.367	11.233	8.187	1.288
468	6.333	10.6	8.047	1.397
469	6.3	10.733	8.03	1.324
470	6.433	10.967	8.147	1.4
471	6.567	10.6	8.083	1.389
472	5.933	10.633	7.53	1.467
473	5.8	10.767	7.57	1.52
474	5.8	10.033	7.377	1.392
475	5.9	10.3	7.373	1.457
476	5.8	10.4	7.35	1.459
477	5.667	10.5	7.34	1.485
478	5.8	10.167	7.317	1.384
479	5.767	10.267	7.283	1.418
480	5.833	10.233	7.313	1.382
481	5.933	9.867	7.36	1.2
482	6.067	10.033	7.513	1.253
483	6.133	10.367	7.603	1.335
484	6	10.567	7.577	1.438
485	6	10.4	7.603	1.386

486	6.033	10.533	7.69	1.385
487	5.967	10.233	7.693	1.396
488	5.867	10.467	7.52	1.461
489	5.767	10.133	7.33	1.41
490	5.767	9.9	7.283	1.339
491	5.733	9.567	7.313	1.284
492	5.767	9.833	7.277	1.327
493	5.867	9.633	7.217	1.237
494	5.9	10.067	7.303	1.314
495	5.833	10	7.3	1.313
496	5.833	9.8	7.297	1.248
497	5.9	9.967	7.437	1.343
498	5.8	10.1	7.45	1.356
499	5.8	10.2	7.443	1.441
500	5.767	10.433	7.4	1.486
		-		

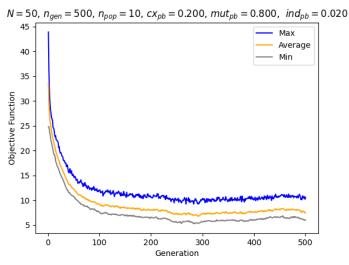


Figure 1: graph of setting 1

# **Setting 2:**

- N = 50
- $n_{gen} = 500$
- $n_{pop} = 25$
- $cx_{pb} = 0.5$
- $mut_{pb} = 0.5$
- $ind_{pb} = 0.002$

# Table of setting 2

Generation	Minimum Fitness	Maximum Fitness	Average Fitness	Standard deviation
1	22.6	45.367	32.887	5.51
2	22.567	37.633	29.584	4.07
3	22.2	33.467	27.256	3.149
4	21.933	30.5	25.736	2.391
5	21.867	28.533	24.516	1.922
6	21.767	26.467	23.539	1.434
7	21.6	25.267	22.82	0.987
8	21.433	24.3	22.357	0.757

9	21.267	23.767	22.076	0.557
10	21.067	22.633	21.833	0.398
11	20.7	22.533	21.629	0.482
12	20.633	22.567	21.459	0.513
13	20.467	22.367	21.265	0.516
14	20.333	22.133	21.055	0.439
15	20.133	21.833	20.908	0.421
16	20.033	22.2	20.799	0.499
17	19.9	21.6	20.605	0.451
18	19.667	21.533	20.48	0.481
19	19.667	21.533	20.355	0.503
20	19.533	21.2	20.163	0.452
21	19.233	21.1	20	0.457
22	18.967	20.9	19.809	0.465
23	18.8	20.533	19.655	0.445
24	18.767	20.7	19.529	0.489
25	18.633	20.8	19.371	0.537
26	18.267	20.433	19.172	0.533
27	18.167	20.2	18.964	0.518
28	17.9	19.6	18.761	0.476
29	17.9	19.6	18.573	0.45
30	17.6	19.7	18.396	0.517
31	17.4	19.3	18.237	0.451
32	17.333	19.133	18.097	0.429
33	17.233	19.167	17.959	0.495
34	17.2	18.833	17.801	0.441
35	17.1	18.8	17.685	0.44
36	16.9	18.5	17.521	0.41
37	16.833	18.467	17.389	0.409
38	16.733	18.1	17.236	0.336
39	16.733	18.167	17.124	0.341
40	16.6	17.7	17.013	0.253
41	16.467	17.8	16.944	0.313
42	16.267	17.767	16.863	0.351
43	16.3	17.633	16.768	0.33

44	16.2	17.567	16.693	0.343
45	16.133	17.433	16.591	0.301
46	15.933	17.333	16.493	0.326
47	15.8	17.467	16.427	0.355
48	15.633	17.3	16.335	0.42
49	15.567	17.133	16.228	0.412
50	15.533	17	16.075	0.406
51	15.433	17.1	15.917	0.434
52	15.333	16.6	15.771	0.319
53	15.3	16.433	15.663	0.301
54	15.167	16.533	15.592	0.311
55	15.167	16.233	15.507	0.272
56	15.1	16.467	15.436	0.317
57	14.9	16.4	15.359	0.344
58	14.6	15.833	15.233	0.287
59	14.567	16.033	15.161	0.361
60	14.5	15.7	15.063	0.342
61	14.467	16.067	14.977	0.43
62	14.4	15.867	14.827	0.377
63	14.167	15.533	14.708	0.339
64	14.033	15.367	14.6	0.306
65	13.8	15.5	14.523	0.383
66	13.733	15.4	14.407	0.438
67	13.533	15.3	14.263	0.437
68	13.333	15.067	14.12	0.428
69	13.333	14.967	14.009	0.412
70	13.267	14.7	13.867	0.406
71	13.233	14.767	13.744	0.407
72	13.167	14.433	13.608	0.36
73	13.033	14.367	13.459	0.366
74	12.967	14.567	13.352	0.344
75	12.967	14.2	13.283	0.288
76	12.933	14.2	13.239	0.309
77	12.8	14.333	13.188	0.348
78	12.667	14.067	13.104	0.324

12.7	13.733	13.02	0.251
12.7	13.633	12.96	0.222
12.6	13.567	12.901	0.248
12.567	13.6	12.847	0.254
12.433	13.633	12.784	0.281
12.233	13.6	12.74	0.311
12.2	13.667	12.687	0.334
12.167	13.5	12.581	0.333
11.967	13.233	12.457	0.33
11.933	13.533	12.388	0.386
11.767	13.033	12.273	0.301
11.767	13.333	12.22	0.372
11.767	12.967	12.139	0.317
11.733	13.167	12.091	0.343
11.6	12.5	11.987	0.264
8.633	9.833	8.904	0.31
8.6	9.633	8.831	0.261
8.533	9.6	8.777	0.244
8.5	9.967	8.76	0.32
8.467	9.433	8.695	0.225
8.367	9.267	8.644	0.228
8.333	9.6	8.619	0.323
8.3	9.5	8.536	0.293
8.267	9.467	8.487	0.279
8.267	9	8.411	0.185
8.233	9.3	8.388	0.235
8.167	9.2	8.352	0.229
8.167	9.433	8.336	0.274
8.1	9.1	8.297	0.217
8.067	9.533	8.3	0.322
8.067	9.633	8.271	0.343
8	9.167	8.207	0.254
7.933	8.833	8.157	0.203
7.833	8.967	8.139	0.262
	12.7 12.6 12.567 12.433 12.233 12.2 12.167 11.967 11.933 11.767 11.767 11.767 11.733 11.6  8.633 8.6 8.533 8.6 8.533 8.5 8.467 8.367	12.7       13.633         12.6       13.567         12.567       13.6         12.433       13.633         12.233       13.66         12.167       13.5         11.967       13.233         11.933       13.533         11.767       13.033         11.767       12.967         11.733       13.167         11.6       12.5         8.633       9.833         8.6       9.633         8.533       9.6         8.467       9.433         8.367       9.267         8.333       9.6         8.267       9.467         8.267       9.467         8.267       9.467         8.267       9.467         8.267       9.467         8.267       9.467         8.267       9.433         8.167       9.2         8.167       9.533         8.067       9.533         8.067       9.633         8.067       9.633         8.9167       7.933         8.833       9.167         7.933       8.833 <td>12.7         13.633         12.96           12.6         13.567         12.901           12.567         13.6         12.847           12.433         13.633         12.784           12.233         13.6         12.74           12.22         13.667         12.687           12.167         13.5         12.581           11.967         13.233         12.457           11.933         13.533         12.388           11.767         13.033         12.273           11.767         13.333         12.22           11.767         12.967         12.139           11.733         13.167         12.091           11.6         12.5         11.987           8.633         9.833         8.904           8.6         9.633         8.831           8.533         9.6         8.777           8.5         9.967         8.76           8.467         9.433         8.695           8.367         9.267         8.644           8.333         9.6         8.619           8.267         9.467         8.487           8.267         9.467         8.487      &lt;</td>	12.7         13.633         12.96           12.6         13.567         12.901           12.567         13.6         12.847           12.433         13.633         12.784           12.233         13.6         12.74           12.22         13.667         12.687           12.167         13.5         12.581           11.967         13.233         12.457           11.933         13.533         12.388           11.767         13.033         12.273           11.767         13.333         12.22           11.767         12.967         12.139           11.733         13.167         12.091           11.6         12.5         11.987           8.633         9.833         8.904           8.6         9.633         8.831           8.533         9.6         8.777           8.5         9.967         8.76           8.467         9.433         8.695           8.367         9.267         8.644           8.333         9.6         8.619           8.267         9.467         8.487           8.267         9.467         8.487      <

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160	7.833	8.967	8.1	0.256
161	7.8	8.733	8.045	0.24
162	7.7	8.7	7.98	0.26
163	7.8	9.1	7.935	0.309
164	7.767	9.067	7.892	0.298
165	7.733	9	7.867	0.277
166	7.633	9.133	7.863	0.323
167	7.6	8.567	7.816	0.224
168	7.6	8.9	7.819	0.297
169	7.5	8.733	7.777	0.271
170	7.533	8.533	7.747	0.225
171	7.533	8.667	7.727	0.273
172	7.5	8.733	7.688	0.28
173	7.433	8.6	7.656	0.251
174	7.4	8.6	7.631	0.273
175	7.333	8.4	7.583	0.245
176	7.233	8.633	7.553	0.314
177	7.167	8.267	7.484	0.279
178	7.133	8.567	7.451	0.347
179	7.1	8.8	7.419	0.395
180	7.067	8.1	7.321	0.277
181	6.967	8.467	7.283	0.354
182	6.9	7.967	7.195	0.249
183	6.833	8.133	7.147	0.301
184	6.867	8.367	7.135	0.379
185	6.833	7.667	7.013	0.231
186	6.833	8.033	6.993	0.296
187	6.833	7.6	6.927	0.177
188	6.767	7.767	6.911	0.223
189	6.567	8.167	6.912	0.338
190	6.567	7.5	6.848	0.191
191	6.567	7.867	6.843	0.297
192	6.533	7.7	6.799	0.25
193	6.5	7.433	6.74	0.222

194	6.5	7.567	6.689	0.282
195	6.433	7.867	6.648	0.339
196	6.433	7.5	6.567	0.26
197	6.433	7.5	6.537	0.241
198	6.4	7.3	6.519	0.213
199	6.333	7.2	6.487	0.182
200	6.367	7.8	6.519	0.314
201	6.333	7.4	6.477	0.242
202	6.3	7.567	6.468	0.271
203	6.267	7.333	6.435	0.223
204	6.167	7.033	6.412	0.206
205	6.1	7.433	6.403	0.308
206	6.1	7.133	6.34	0.265
207	6.067	6.967	6.285	0.221
208	6.067	7.467	6.275	0.332
209	6.067	7.033	6.208	0.217
210	6.033	7.167	6.195	0.246
211	6.033	7.033	6.173	0.206
212	6.033	7.033	6.163	0.222
213	6.033	6.967	6.153	0.215
214	6	7	6.139	0.234
215	6	7.133	6.129	0.24
216	5.967	7	6.107	0.221
217	6	7.033	6.1	0.245
218	6	7.067	6.08	0.223
219	5.967	7.067	6.077	0.238
220	5.933	7	6.071	0.247
221	5.867	6.933	6.053	0.237
222	5.833	6.933	6.017	0.243
223	5.8	6.667	5.963	0.205
224	5.8	7	5.953	0.259
225	5.767	6.833	5.924	0.243
226	5.767	6.867	5.9	0.244
227	5.6	6.867	5.872	0.259
228	5.533	6.967	5.848	0.295

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229	5.533	6.633	5.809	0.263
230	5.5	6.667	5.767	0.281
231	5.5	6.867	5.727	0.326
232	5.5	6.633	5.68	0.285
233	5.5	7	5.669	0.349
234	5.433	6.633	5.607	0.265
235	5.333	6.367	5.567	0.239
236	5.3	6.733	5.552	0.313
237	5.233	6.667	5.516	0.326
238	5.267	6.4	5.447	0.283
239	5.267	6.3	5.392	0.26
240	5.267	6.233	5.356	0.231
241	5.167	6.233	5.327	0.225
242	5.133	6.367	5.317	0.257
243	5.1	5.967	5.287	0.182
244	5.1	6.367	5.296	0.289
245	5.1	6.2	5.269	0.261
246	5.067	6.433	5.24	0.319
247	5.067	6	5.173	0.214
248	5.067	6.1	5.16	0.233
249	5.067	6.233	5.163	0.25
250	5.067	6.133	5.147	0.227
251	5.033	6.4	5.149	0.289
252	5.033	5.767	5.112	0.163
253	5	5.733	5.099	0.16
254	4.933	6.1	5.113	0.25
255	4.9	5.9	5.089	0.231
256	4.9	5.733	5.043	0.194
257	4.9	5.833	5.02	0.208
258	4.9	5.8	5.005	0.22
259	4.9	6.033	4.991	0.251
260	4.867	5.9	4.955	0.215
261	4.833	6.267	4.988	0.313
262	4.767	5.667	4.931	0.186
202	7.707	3.007	7.331	0.100

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263	4.8	5.933	4.944	0.249
264	4.767	6.133	4.923	0.312
265	4.733	5.8	4.873	0.234
266	4.7	5.9	4.861	0.269
267	4.667	6.067	4.864	0.306
268	4.667	5.667	4.817	0.22
269	4.633	5.833	4.803	0.275
270	4.633	5.533	4.769	0.213
271	4.533	5.4	4.724	0.195
272	4.5	5.6	4.708	0.231
273	4.533	5.7	4.697	0.277
274	4.533	5.867	4.683	0.323
275	4.533	5.633	4.628	0.245
276	4.533	5.567	4.613	0.232
277	4.533	5.7	4.62	0.277
278	4.467	5.567	4.587	0.233
279	4.467	5.3	4.565	0.176
280	4.467	5.733	4.581	0.28
281	4.467	5.433	4.547	0.219
282	4.4	5.4	4.528	0.22
283	4.467	5.467	4.527	0.217
284	4.367	5.567	4.529	0.263
285	4.333	5.333	4.509	0.212
286	4.333	5.433	4.512	0.235
287	4.267	5.567	4.507	0.283
288	4.233	5.267	4.488	0.256
289	4.133	5.333	4.447	0.279
290	4.133	5.167	4.397	0.258
291	4.133	5.3	4.349	0.277
292	4.1	5.4	4.313	0.313
293	4.067	5.333	4.255	0.287
294	4.067	4.867	4.201	0.196
295	4	5.333	4.185	0.289
296	3.967	5.2	4.163	0.278

297	3.933	5.067	4.12	0.257
298	3.9	4.867	4.089	0.254
299	3.9	5	4.073	0.266
300	3.9	5.167	4.061	0.307
301	3.867	4.867	4.004	0.228
302	3.867	4.8	3.983	0.222
303	3.833	5.067	3.971	0.262
304	3.8	4.933	3.952	0.241
305	3.767	4.867	3.931	0.232
306	3.767	4.967	3.917	0.267
307	3.767	4.833	3.893	0.25
308	3.733	4.933	3.864	0.261
309	3.7	4.833	3.837	0.257
310	3.667	4.6	3.808	0.197
311	3.667	4.9	3.813	0.245
312	3.667	4.767	3.804	0.237
313	3.667	4.9	3.804	0.267
314	3.667	4.533	3.767	0.205
315	3.633	4.5	3.753	0.206
316	3.667	4.9	3.767	0.283
317	3.667	4.867	3.765	0.279
318	3.667	5.033	3.759	0.301
319	3.633	5.033	3.747	0.309
320	3.633	4.4	3.703	0.163
321	3.6	4.367	3.689	0.157
322	3.6	4.567	3.705	0.22
323	3.533	4.433	3.685	0.196
324	3.5	4.967	3.715	0.346
325	3.5	4.833	3.669	0.283
326	3.5	4.767	3.645	0.287
327	3.467	4.867	3.623	0.311
328	3.467	4.567	3.572	0.242
329	3.467	4.733	3.563	0.291
330	3.467	4.667	3.547	0.27

331	3.4	4.467	3.515	0.223
332	3.4	4.667	3.527	0.269
333	3.367	4.5	3.511	0.245
334	3.4	4.367	3.505	0.213
335	3.367	4.467	3.493	0.237
336	3.333	4.167	3.483	0.187
337	3.3	4.633	3.483	0.278
338	3.267	4.367	3.463	0.25
339	3.267	4.467	3.457	0.271
340	3.267	4.267	3.425	0.237
341	3.233	4.133	3.379	0.221
342	3.233	4.233	3.36	0.232
343	3.233	4.267	3.345	0.222
344	3.167	4.267	3.32	0.221
345	3.167	4.367	3.319	0.266
346	3.167	4.533	3.313	0.305
347	3.1	4.333	3.295	0.282
348	3.133	4.233	3.26	0.252
349	3.067	4.167	3.232	0.261
350	3.067	4.3	3.232	0.296
351	3.1	4.267	3.199	0.261
352	3.1	4.067	3.173	0.21
353	3.1	4	3.177	0.211
354	3.1	4.333	3.179	0.28
355	3.1	4.1	3.157	0.221
356	3.067	4.133	3.159	0.227
357	3.067	3.733	3.129	0.137
358	3.033	3.967	3.144	0.201
359	3	4.1	3.139	0.221
360	2.967	4.033	3.135	0.227
361	2.933	3.9	3.108	0.224
362	2.867	4.2	3.101	0.299
363	2.867	3.933	3.047	0.234
364	2.867	3.867	3.028	0.245
365	2.867	4.1	3.024	0.291

378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.83         2.632         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         4.067         2.66	_	1			
368         2.867         3.933         2.959         0.237           369         2.8         3.933         2.939         0.234           370         2.833         3.733         2.939         0.202           371         2.833         3.833         2.937         0.227           372         2.833         3.733         2.915         0.19           373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.83         2.793         0.284           381         2.633         3.833         2.793         0.284           382         2.6         3.933         2.747         0.309           383         2.6         3.933         2.7					
369         2.8         3.933         2.939         0.234           370         2.833         3.733         2.939         0.202           371         2.833         3.833         2.937         0.227           372         2.833         3.733         2.915         0.19           373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         3.733         2.688 <td>367</td> <td>2.867</td> <td>3.833</td> <td>2.967</td> <td></td>	367	2.867	3.833	2.967	
370         2.833         3.733         2.939         0.202           371         2.833         3.833         2.937         0.227           372         2.833         3.733         2.915         0.19           373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         3.933         2.747         0.309           385         2.6         3.733         2.688 <td>368</td> <td>2.867</td> <td>3.933</td> <td>2.959</td> <td>0.237</td>	368	2.867	3.933	2.959	0.237
371         2.833         3.833         2.937         0.227           372         2.833         3.733         2.915         0.19           373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           380         2.633         3.9         2.816         0.249           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         3.933         2.747         0.309           384         2.6         3.733         2.688         0.257           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685<	369	2.8	3.933	2.939	0.234
372         2.833         3.733         2.915         0.19           373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.433         2.659         0.204           388         2.567         3.533         2.647<	370	2.833	3.733	2.939	0.202
373         2.8         4         2.923         0.25           374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.533         2.647         0.208           388         2.567         3.533         2.647 <td>371</td> <td>2.833</td> <td>3.833</td> <td>2.937</td> <td>0.227</td>	371	2.833	3.833	2.937	0.227
374         2.767         3.9         2.917         0.252           375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.667         2.685         0.302           388         2.567         3.533         2.647         0.208           389         2.533         3.4         2.64	372	2.833	3.733	2.915	0.19
375         2.767         4.067         2.911         0.299           376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633 </td <td>373</td> <td>2.8</td> <td>4</td> <td>2.923</td> <td>0.25</td>	373	2.8	4	2.923	0.25
376         2.7         3.9         2.889         0.289           377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652 <td>374</td> <td>2.767</td> <td>3.9</td> <td>2.917</td> <td>0.252</td>	374	2.767	3.9	2.917	0.252
377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         3.733         2.688         0.257           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2	375	2.767	4.067	2.911	0.299
377         2.633         3.633         2.833         0.226           378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         3.733         2.688         0.257           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2					
378         2.633         3.8         2.816         0.249           379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.533         2.647         0.208           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.833         2.652         0.279           393         2.533         3.8         2.652         0.279           393         2.533         3.833         2.6	376	2.7	3.9	2.889	0.289
379         2.667         4         2.832         0.299           380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.86         2.635         0.258           394         2.533         3.83         2.652         0.279           393         2.533         3.83         2.652<	377	2.633	3.633	2.833	0.226
380         2.633         3.9         2.816         0.274           381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.367         2.608         0.173           395         2.533         3.833         2.625         0.268           397         2.533         3.833 <td< td=""><td>378</td><td>2.633</td><td>3.8</td><td>2.816</td><td>0.249</td></td<>	378	2.633	3.8	2.816	0.249
381         2.633         3.833         2.793         0.284           382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.83         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         3.833         2.625         0.268           397         2.533         3.637 <t< td=""><td>379</td><td>2.667</td><td>4</td><td>2.832</td><td>0.299</td></t<>	379	2.667	4	2.832	0.299
382         2.6         3.9         2.775         0.291           383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         3.833         2.625         0.268           397         2.533         3.833         2.625         0.268           397         2.533         3.633 <td< td=""><td>380</td><td>2.633</td><td>3.9</td><td>2.816</td><td>0.274</td></td<>	380	2.633	3.9	2.816	0.274
383         2.6         3.933         2.747         0.309           384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.367         2.608         0.173           394         2.533         3.833         2.625         0.268           397         2.533         3.833         2.625         0.268           397         2.533         3.633         2.603         0.245	381	2.633	3.833	2.793	0.284
384         2.6         4.1         2.716         0.325           385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.833         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.367         2.608         0.173           394         2.533         3.833         2.625         0.268           397         2.533         3.833         2.625         0.268           397         2.533         3.633         2.603         0.245	382	2.6	3.9	2.775	0.291
385         2.6         3.733         2.688         0.257           386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.367         2.608         0.173           394         2.533         3.837         2.608         0.173           395         2.533         3.833         2.625         0.268           397         2.533         3.467         2.611         0.213           398         2.5         3.633         2.603         0.245	383	2.6	3.933	2.747	0.309
386         2.567         3.667         2.685         0.254           387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         4.067         2.663         0.341           396         2.533         3.833         2.625         0.268           397         2.533         3.467         2.611         0.213           398         2.5         3.633         2.603         0.245	384	2.6	4.1	2.716	0.325
387         2.567         3.967         2.685         0.302           388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         4.067         2.663         0.341           396         2.533         3.833         2.625         0.268           397         2.533         3.467         2.611         0.213           398         2.5         3.633         2.603         0.245	385	2.6	3.733	2.688	0.257
388         2.567         3.433         2.659         0.204           389         2.567         3.533         2.647         0.208           390         2.533         3.4         2.64         0.183           391         2.5         3.3         2.633         0.175           392         2.5         3.833         2.652         0.279           393         2.533         3.8         2.635         0.258           394         2.533         3.367         2.608         0.173           395         2.533         4.067         2.663         0.341           396         2.533         3.833         2.625         0.268           397         2.533         3.467         2.611         0.213           398         2.5         3.633         2.603         0.245	386	2.567	3.667	2.685	0.254
389       2.567       3.533       2.647       0.208         390       2.533       3.4       2.64       0.183         391       2.5       3.3       2.633       0.175         392       2.5       3.833       2.652       0.279         393       2.533       3.8       2.635       0.258         394       2.533       3.367       2.608       0.173         395       2.533       4.067       2.663       0.341         396       2.533       3.833       2.625       0.268         397       2.533       3.467       2.611       0.213         398       2.5       3.633       2.603       0.245	387	2.567	3.967	2.685	0.302
390       2.533       3.4       2.64       0.183         391       2.5       3.3       2.633       0.175         392       2.5       3.833       2.652       0.279         393       2.533       3.8       2.635       0.258         394       2.533       3.367       2.608       0.173         395       2.533       4.067       2.663       0.341         396       2.533       3.833       2.625       0.268         397       2.533       3.467       2.611       0.213         398       2.5       3.633       2.603       0.245	388	2.567	3.433	2.659	0.204
391     2.5     3.3     2.633     0.175       392     2.5     3.833     2.652     0.279       393     2.533     3.8     2.635     0.258       394     2.533     3.367     2.608     0.173       395     2.533     4.067     2.663     0.341       396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	389	2.567	3.533	2.647	0.208
392     2.5     3.833     2.652     0.279       393     2.533     3.8     2.635     0.258       394     2.533     3.367     2.608     0.173       395     2.533     4.067     2.663     0.341       396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	390	2.533	3.4	2.64	0.183
393     2.533     3.8     2.635     0.258       394     2.533     3.367     2.608     0.173       395     2.533     4.067     2.663     0.341       396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	391	2.5	3.3	2.633	0.175
394     2.533     3.367     2.608     0.173       395     2.533     4.067     2.663     0.341       396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	392	2.5	3.833	2.652	0.279
395     2.533     4.067     2.663     0.341       396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	393	2.533	3.8	2.635	0.258
396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	394	2.533	3.367	2.608	0.173
396     2.533     3.833     2.625     0.268       397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	395	2.533	4.067	2.663	
397     2.533     3.467     2.611     0.213       398     2.5     3.633     2.603     0.245	396				0.268
398 2.5 3.633 2.603 0.245	397				
	399				

_		-		
400	2.5	3.733	2.587	0.248
401	2.467	3.633	2.588	0.251
402	2.467	3.767	2.603	0.287
403	2.467	3.5	2.581	0.224
404	2.433	3.4	2.565	0.216
405	2.467	3.8	2.576	0.285
406	2.467	3.533	2.56	0.244
407	2.467	3.5	2.552	0.222
408	2.467	3.467	2.543	0.218
409	2.467	3.7	2.551	0.265
410	2.467	3.667	2.551	0.276
411	2.467	3.633	2.541	0.263
412	2.433	3.167	2.507	0.153
413	2.433	3.233	2.503	0.17
414	2.433	3.7	2.537	0.282
415	2.367	3.2	2.501	0.177
416	2.367	3.633	2.528	0.273
417	2.367	3.4	2.513	0.253
418	2.367	3.533	2.503	0.263
419	2.333	3.433	2.48	0.246
420	2.333	3.5	2.464	0.265
421	2.333	3.4	2.439	0.247
422	2.3	3.433	2.429	0.258
423	2.3	3.333	2.395	0.227
424	2.3	3.333	2.379	0.228
425	2.267	3.267	2.369	0.213
426	2.267	3.533	2.377	0.277
427	2.267	3.333	2.347	0.235
428	2.267	3.367	2.34	0.238
429	2.2	3.133	2.307	0.188
430	2.2	3.267	2.319	0.22
431	2.233	3.533	2.34	0.286
432	2.233	3.3	2.328	0.239
433	2.233	3.467	2.325	0.264

434	2.233	2.967	2.288	0.162
435	2.233	3.233	2.3	0.222
436	2.2	3.333	2.292	0.245
437	2.2	3.333	2.295	0.254
438	2.2	3.733	2.297	0.322
439	2.2	3.4	2.281	0.269
440	2.2	3.2	2.257	0.218
441	2.2	3.367	2.275	0.269
442	2.2	3.267	2.251	0.219
443	2.133	3.167	2.247	0.215
444	2.133	3.333	2.253	0.247
445	2.133	3.5	2.279	0.305
446	2.133	3.333	2.259	0.259
447	2.133	3.6	2.261	0.311
448	2.133	3.133	2.244	0.234
449	2.133	3	2.201	0.193
450	2.133	3.233	2.211	0.249
451	2.1	3.233	2.2	0.25
452	2.1	3.133	2.188	0.231
453	2.1	2.967	2.179	0.208
454	2.1	3.133	2.159	0.216
455	2.1	3.267	2.179	0.276
456	2.1	3.167	2.164	0.242
457	2.1	3.3	2.156	0.246
458	2.1	3.1	2.155	0.214
459	2.1	3.567	2.183	0.317
460	2.1	3.333	2.164	0.262
461	2.067	3.1	2.152	0.217
462	2.067	3.3	2.176	0.283
463	2.067	2.967	2.147	0.2
464	2.033	3.3	2.16	0.289
465	2.033	3.1	2.131	0.235
466	2.033	3.233	2.128	0.263
467	2	3.067	2.107	0.231
468	1.967	3.167	2.112	0.27

470       1.967       3       2.076       0         471       1.967       3.1       2.085       0         472       1.9       2.767       2.039       0         473       1.9       3.567       2.073       0         474       1.9       3.033       2.023       0         475       1.9       2.9       2.004       0         476       1.867       3       2.02       0         477       1.867       3.067       2       0         478       1.867       3.133       2.001       0         479       1.867       2.967       1.973       0         480       1.833       3       1.955       0	).257 ).249 ).287 ).204 ).372 ).256 ).199 ).265 ).275 ).294 ).257
471       1.967       3.1       2.085       0         472       1.9       2.767       2.039       0         473       1.9       3.567       2.073       0         474       1.9       3.033       2.023       0         475       1.9       2.9       2.004       0         476       1.867       3.067       2       0         477       1.867       3.133       2.001       0         479       1.867       2.967       1.973       0         480       1.833       3       1.955       0	).287 ).204 ).372 ).256 ).199 ).265 ).275 ).294 ).257
471       1.967       3.1       2.085       0         472       1.9       2.767       2.039       0         473       1.9       3.567       2.073       0         474       1.9       3.033       2.023       0         475       1.9       2.9       2.004       0         476       1.867       3.067       2       0         477       1.867       3.133       2.001       0         479       1.867       2.967       1.973       0         480       1.833       3       1.955       0	).287 ).204 ).372 ).256 ).199 ).265 ).275 ).294 ).257
472       1.9       2.767       2.039       0         473       1.9       3.567       2.073       0         474       1.9       3.033       2.023       0         475       1.9       2.9       2.004       0         476       1.867       3       2.02       0         477       1.867       3.067       2       0         478       1.867       3.133       2.001       0         479       1.867       2.967       1.973       0         480       1.833       3       1.955       0	).204 ).372 ).256 ).199 ).265 ).275 ).294 ).257
473       1.9       3.567       2.073       0         474       1.9       3.033       2.023       0         475       1.9       2.9       2.004       0         476       1.867       3       2.02       0         477       1.867       3.067       2       0         478       1.867       3.133       2.001       0         479       1.867       2.967       1.973       0         480       1.833       3       1.955       0	).372 ).256 ).199 ).265 ).275 ).294 ).257
474     1.9     3.033     2.023     0       475     1.9     2.9     2.004     0       476     1.867     3     2.02     0       477     1.867     3.067     2     0       478     1.867     3.133     2.001     0       479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	).256 ).199 ).265 ).275 ).294 ).257
475     1.9     2.9     2.004     0       476     1.867     3     2.02     0       477     1.867     3.067     2     0       478     1.867     3.133     2.001     0       479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	0.199 0.265 0.275 0.294 0.257
476     1.867     3     2.02     0       477     1.867     3.067     2     0       478     1.867     3.133     2.001     0       479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	).265 ).275 ).294 ).257
477     1.867     3.067     2     0       478     1.867     3.133     2.001     0       479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	).275 ).294 ).257
478     1.867     3.133     2.001     0       479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	).294
479     1.867     2.967     1.973     0       480     1.833     3     1.955     0	).257
480 1.833 3 1.955	
	).272
481 1.833 3.2 1.957	0.306
482 1.8 3.033 1.924	).251
483 1.833 2.867 1.917	).216
484 1.8 2.867 1.925	0.24
485 1.833 2.933 1.924 (	).233
486 1.8 2.7 1.915	).215
487 1.8 2.9 1.904 (	).248
488 1.8 2.7 1.877	0.21
489 1.8 3.167 1.897	0.307
490 1.8 2.733 1.856 (	).204
491 1.8 3.067 1.872	).275
492 1.8 2.867 1.865 (	).245
	).258
494 1.767 2.967 1.861 (	0.263
	0.268
	).338
	).282
<del>                                     </del>	0.203
499 1.733 3.033 1.833	0.28
500 1.7 2.733 1.817	

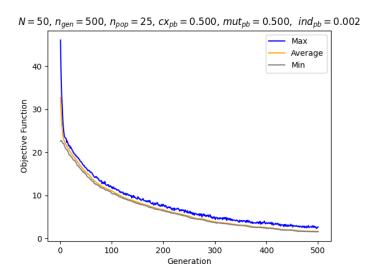


Figure 2: Graph of setting 2

**Setting 3:** N = 50,  $n_{gen} = 500$ , pop = 75, expb = 0.8, mutpb = 0.5, indpb = 0.01

## **Table of Setting 3**

Generation	Minimum Fitness	Maximum Fitness	Average Fitness	Standard deviation
1	21.1	49.467	33.131	5.835
2	21.033	41.867	29.937	4.396
3	20.733	36.667	27.663	3.509
4	20.533	33.033	25.88	2.779
5	20.067	30.467	24.456	2.374
6	19.733	29.067	23.315	2.023
7	18.867	27.5	22.402	1.732
8	18.5	26.1	21.608	1.441
9	17.767	24.7	20.994	1.379
10	17.4	24.333	20.458	1.375
11	16.933	23.633	19.91	1.318
12	16.433	23.2	19.408	1.308
13	16.033	22.8	18.894	1.302
14	15.6	22.267	18.365	1.263
15	15.2	21.667	17.832	1.249
16	14.633	21.133	17.36	1.199
17	14.433	20.867	16.888	1.179

	1	1		
18	14.233	20	16.439	1.121
19	13.9	19.4	16.02	1.073
20	13.633	19.3	15.66	1.064
21	13.2	18.567	15.297	1.023
22	12.9	18.467	14.95	1.013
23	12.733	18.133	14.632	0.974
24	12.333	17.733	14.344	0.973
25	12.133	17.5	14.047	0.994
26	11.9	16.9	13.738	0.951
27	11.667	16.767	13.451	0.98
28	11.333	16.367	13.151	0.922
29	11.167	16.3	12.896	0.955
30	10.833	15.833	12.625	0.952
31	10.633	16.167	12.375	0.977
32	10.467	15.4	12.109	0.934
33	10.267	15.3	11.843	0.917
34	10.067	14.8	11.627	0.913
35	9.9	15.167	11.428	0.976
36	9.533	14.533	11.184	0.928
37	9.367	14.4	10.978	0.925
38	9.133	14.133	10.724	0.852
39	8.767	14.333	10.549	0.912
40	8.467	13.567	10.349	0.922
41	8.3	13.367	10.164	0.962
42	8.2	13.4	9.929	0.97
43	8.167		9.687	0.957
44	7.9	13.067	9.451	0.946
45	7.767	12.767	9.243	0.932
46	7.6	12.733	9.036	0.952
47	7.4	12.5	8.808	0.939
48	7.267	12.167	8.603	0.911
49	7.033	11.7	8.37	0.857
50	6.867	11.5	8.203	0.877
51	6.7	11.6	8.072	0.901
52 53	6.467	11.033	7.885	0.833 0.815
53	6.333	10.967 11.367	7.723 7.616	0.813
55	6.133	10.967	7.48	0.902
56	6		7.322	0.886

57	5.867	10.633	7.168	0.901
58	5.7	10.6	6.981	0.891
59	5.533	10.333	6.839	0.895
60	5.467	10	6.719	0.853
61	5.4	10.367	6.6	0.899
62	5.267	9.933	6.465	0.887
63	5.133	9.567	6.29	0.834
64	4.967	9.467	6.16	0.85
65	4.833	9.367	6.028	0.837
66	4.733	9.533	5.898	0.864
67	4.633	9.433	5.814	0.882
68	4.533	9.033	5.717	0.897
69	4.467	8.867	5.566	0.851
70	4.367	8.967	5.454	0.846
71	4.333	9.067	5.328	0.863
72	4.2	8.567	5.218	0.854
73	4.133	8.267	5.096	0.811
74	4.067	8.233	5.025	0.825
75	3.833	8.833	4.924	0.888
76	3.667	8.267	4.88	0.884
77	3.6	8.033	4.726	0.812
78	3.533	7.7	4.643	0.832
79	3.333	8.1	4.55	0.841
80	3.333	8.067	4.487	0.894
81	3.233	7.867	4.363	0.862
82	3.167	7.533	4.246	0.846
83	3.067	7.467	4.131	0.845
84	3.033	7.567	4.055	0.901
85	2.967	7.2	3.966	0.876
86	3	7.467	3.86	0.89
87	2.867	6.867	3.766	0.841
88	2.8	6.833	3.664	0.827
89	2.7	6.833	3.625	0.859
90	2.533	6.833	3.543	0.853
91	2.633	6.8	3.482	0.858
92	2.533	6.833	3.384	0.823
93	2.467	6.6	3.319	0.822
94	2.433	6.6	3.259	0.848
95	2.333	6.333	3.173	0.795
96	2.267	6.7	3.137	0.865
97	2.167	6.467	3.076	0.856

98	2.033	6.167	2.976	0.821
99	2	6.3	2.924	0.86
100	1.967	5.967	2.801	0.819
101	1.967	6.233	2.749	0.852
102	1.933	6.3	2.661	0.838
103	1.867	5.933	2.604	0.828
104	1.8	5.767	2.535	0.847
105	1.8	5.767	2.472	0.837
106	1.767	5.8	2.388	0.814
107	1.7	5.6	2.327	0.798
108	1.667	5.533	2.288	0.811
109	1.567	5.533	2.262	0.833
110	1.6	5.767	2.186	0.81
111	1.533	5.367	2.169	0.797
112	1.467	5.567	2.124	0.816
113	1.5	5.2	2.1	0.819
114	1.4	5.433	2.066	0.824
115	1.433	5.467	2.041	0.837
116	1.367	5.567	2.013	0.855
117	1.4	5.3	1.984	0.841
118	1.3	5.167	1.948	0.815
119	1.2	5.1	1.893	0.772
120	1.233	5.433	1.878	0.829
121	1.233	5.167	1.834	0.817
122	1.2	4.9	1.772	0.782
123	1.233	5.233	1.74	0.825
124	1.133	4.767	1.732	0.837
125	1.133	5.1	1.673	0.824
126	1.067	4.867	1.619	0.788
127	1.033	5.067	1.604	0.791
128	1.033	4.967	1.633	0.843
129	1.067	4.567	1.582	0.754
130	1	4.867	1.593	0.806
131	0.933	4.967	1.599	0.832
132	0.867	4.733	1.561	0.821
133	0.833	5.1	1.52	0.839

134	0.833	4.9	1.48	0.811
135	0.8	4.833	1.44	0.814
136	0.833	4.8	1.41	0.831
137	0.8	4.667	1.382	0.835
138	0.8	5.1	1.356	0.895
139	0.8	5.033	1.306	0.869
140	0.767	4.333	1.244	0.784
141	0.733	5.067	1.245	0.878
142	0.667	4.733	1.199	0.825
143	0.7	4.433	1.172	0.804
144	0.7	4.467	1.139	0.792
145	0.667	4.7	1.152	0.834
146	0.7	4.667	1.146	0.837
147	0.7	4.5	1.12	0.8
148	0.633	4.367	1.101	0.795
149	0.6	4.2	1.079	0.776
150	0.567	4.533	1.08	0.794
151	0.6	4.3	1.081	0.806
152	0.633	4.333	1.04	0.78
153	0.6	4.567	1.063	0.831
154	0.533	4.6	1.044	0.815
155	0.567	4.133	1.017	0.77
156	0.533	4.533	1.038	0.834
157	0.533	4.333	1.01	0.791
158	0.533	4.233	0.994	0.794
159	0.533	4.633	0.978	0.802
160	0.533	4.633	0.987	0.834
161	0.5	4.033	0.975	0.779
162	0.467	4.367	0.966	0.813
163	0.467	4.133	0.911	0.742
164	0.433	4.267	0.941	0.798
165	0.433	4.233	0.943	0.836
166	0.433	4.367	0.936	0.857
167	0.367	4.233	0.918	0.831
168	0.4	4.333	0.876	0.801

169	0.4	4.033	0.85	0.79
170	0.4	4.067	0.824	0.803
171	0.4	4.3	0.823	0.82
172	0.367	4	0.816	0.817
173	0.367	4.067	0.799	0.826
174	0.333	4.167	0.788	0.813
175	0.333	4.467	0.803	0.858
176	0.333	4.233	0.798	0.85
177	0.333	3.633	0.752	0.776
178	0.333	3.967	0.758	0.795
179	0.333	4.233	0.762	0.825
180	0.333	4.067	0.745	0.796
181	0.333	4.233	0.737	0.812
182	0.3	4.1	0.72	0.815
183	0.3	3.833	0.702	0.78
184	0.267	3.667	0.674	0.74
185	0.267	4.167	0.656	0.774
186	0.267	3.7	0.653	0.744
187	0.233	3.967	0.68	0.799
188	0.233	3.9	0.66	0.777
189	0.233	4.2	0.667	0.827
190	0.233	4.1	0.646	0.803
191	0.233	4.067	0.663	0.815
192	0.267	4.167	0.657	0.835
193	0.167	3.967	0.67	0.848
194	0.167	3.967	0.651	0.822
195	0.167	4.033	0.633	0.804
196	0.167	4	0.619	0.795
197	0.167	3.767	0.623	0.802
198	0.167	4.133	0.6	0.818
199	0.167	4	0.594	0.82
200	0.167	3.9	0.614	0.841
201	0.167	4.067	0.579	0.819
202	0.167	4.267	0.569	0.831
203	0.167	3.833	0.56	0.805
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204	0.167	3.767	0.556	0.821
205	0.167	3.967	0.553	0.825
206	0.167	3.833	0.536	0.8
207	0.133	3.8	0.5	0.768
208	0.133	4.2	0.515	0.789
209	0.133	4.2	0.526	0.815
210	0.133	3.8	0.516	0.786
211	0.133	3.8	0.529	0.796
212	0.133	4	0.522	0.799
213	0.133	4.033	0.523	0.819
214	0.133	4.167	0.532	0.856
215	0.133	4.033	0.504	0.823
216	0.133	3.9	0.494	0.792
217	0.133	3.9	0.503	0.802
218	0.133	3.967	0.525	0.847
219	0.133	4.2	0.524	0.842
220	0.133	3.9	0.507	0.81
221	0.133	3.9	0.515	0.807
222	0.133	3.567	0.499	0.783
223	0.133	4.467	0.532	0.878
224	0.133	4.067	0.521	0.838
225	0.133	4.467	0.525	0.862
226	0.133	4.033	0.529	0.832
227	0.133	4.1	0.508	0.838
228	0.133	3.567	0.459	0.746
229	0.133	3.533	0.497	0.766
230	0.133	4.533	0.552	0.891
231	0.1	4.367	0.511	0.847
232	0.1	4.333	0.508	0.844
233	0.1	3.867	0.526	0.828
234	0.1	3.867	0.48	0.779
235	0.1	3.667	0.491	0.777
236	0.1	4.2	0.506	0.832
237	0.1	3.967	0.492	0.785
238	0.1	3.933	0.507	0.821

239	0.1	3.433	0.482	0.76
240	0.1	3.933	0.509	0.83
241	0.1	4	0.514	0.846
242	0.1	3.833	0.485	0.797
243	0.1	4.1	0.498	0.847
244	0.1	4.2	0.511	0.858
245	0.1	3.9	0.486	0.821
246	0.1	3.9	0.466	0.802
247	0.1	3.9	0.47	0.797
248	0.1	3.667	0.482	0.809
249	0.1	3.533	0.478	0.792
250	0.1	4.033	0.484	0.812
251	0.1	3.833	0.452	0.795
252	0.1	3.933	0.463	0.794
253	0.1	4.067	0.465	0.825
254	0.1	3.633	0.494	0.827
255	0.1	4.267	0.484	0.836
256	0.1	3.933	0.489	0.81
257	0.1	3.333	0.465	0.763
258	0.1	3.833	0.49	0.822
259	0.1	3.633	0.481	0.793
260	0.1	3.967	0.476	0.817
261	0.1	3.833	0.465	0.798
262	0.1	3.933	0.468	0.815
263	0.1	3.667	0.448	0.768
264	0.1	4.033	0.479	0.835
265	0.1	3.967	0.472	0.809
266	0.1	4.4	0.512	0.882
267	0.1	3.667	0.488	0.808
268	0.067	4.2	0.52	0.878
269	0.067	3.767	0.466	0.795
270	0.1	3.867	0.462	0.804
271	0.1	3.667	0.483	0.805
272	0.1	3.7	0.463	0.8
273	0.1	4.467	0.482	0.851
274	0.1	3.533	0.466	0.774

276         0.1         3.733         0.465         0.784           277         0.1         4.233         0.483         0.843           278         0.1         3.733         0.466         0.778           279         0.1         3.7         0.475         0.788           280         0.1         3.9         0.485         0.808           281         0.1         4.067         0.496         0.834           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.80           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.792           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.765           291         0.1         3.667         0.45					
277         0.1         4.233         0.483         0.843           278         0.1         3.733         0.466         0.778           279         0.1         3.7         0.475         0.788           280         0.1         3.9         0.485         0.808           281         0.1         4.067         0.496         0.834           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.803           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.792           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.762           290         0.1         3.567         0.445         0.765           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         <	275	0.1	3.833	0.484	0.826
278         0.1         3.733         0.466         0.775           279         0.1         3.7         0.475         0.781           280         0.1         3.9         0.485         0.806           281         0.1         4.067         0.496         0.832           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.792           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.446         0.781           289         0.1         3.467         0.443         0.762           290         0.1         3.567         0.45         0.765           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.78           293         0.1         3.767         0.46	276	0.1	3.733	0.465	0.784
279         0.1         3.7         0.475         0.788           280         0.1         3.9         0.485         0.808           281         0.1         4.067         0.496         0.832           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.755           292         0.1         3.9         0.452         0.781           293         0.1         3.767         0.46         0.772           294         0.1         3.667         0.461	277	0.1	4.233	0.483	0.843
280         0.1         3.9         0.485         0.808           281         0.1         4.067         0.496         0.832           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.762           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.781           293         0.1         3.767         0.46         0.772           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484	278	0.1	3.733	0.466	0.778
281         0.1         4.067         0.496         0.832           282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.792           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.762           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.783           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0	279	0.1	3.7	0.475	0.788
282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.793           286         0.1         3.637         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.764           291         0.1         3.6         0.454         0.755           292         0.1         3.9         0.452         0.78           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.812           296         0.1         3.9         0.482         0.822           297         0.1         3.967         0.471         0	280	0.1	3.9	0.485	0.808
282         0.1         3.8         0.476         0.803           283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.793           286         0.1         3.637         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.764           291         0.1         3.6         0.454         0.755           292         0.1         3.9         0.452         0.78           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.812           296         0.1         3.9         0.482         0.822           297         0.1         3.967         0.471         0	281	0.1	4.067	0.496	0.834
283         0.1         3.533         0.468         0.771           284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.792           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.765           291         0.1         3.6         0.454         0.755           292         0.1         3.9         0.452         0.785           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
284         0.1         4.133         0.519         0.86           285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.793           287         0.1         3.633         0.441         0.773           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.767           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.781           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.825           297         0.1         3.967         0.471         0.825           298         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462 <t< td=""><td>282</td><td>0.1</td><td>3.8</td><td>0.476</td><td>0.803</td></t<>	282	0.1	3.8	0.476	0.803
285         0.1         3.933         0.469         0.792           286         0.1         3.767         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.767           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.785           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.78           300         0.1         3.667         0.462 <td< td=""><td>283</td><td>0.1</td><td>3.533</td><td>0.468</td><td>0.771</td></td<>	283	0.1	3.533	0.468	0.771
286         0.1         3.767         0.465         0.793           287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.767           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.787           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.812           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.78           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471	284	0.1	4.133	0.519	0.86
287         0.1         3.633         0.441         0.77           288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.781           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.833         0.451         0.788           300         0.1         3.833         0.451         0.788           301         0.1         4.133         0.471         0.829           302         0.1         4.133         0.471         0.829           303         0.1         3.9         0.429	285	0.1	3.933	0.469	0.795
288         0.1         3.667         0.46         0.781           289         0.1         3.467         0.443         0.762           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.787           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773	286	0.1	3.767	0.465	0.793
289         0.1         3.467         0.443         0.763           290         0.1         3.567         0.45         0.763           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.783           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.812           296         0.1         3.9         0.48         0.825           297         0.1         3.867         0.471         0.825           298         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         3.667         0.462         0.79           302         0.1         4.03         0.471         0.829           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.773           305         0.067         4.067         0.454         0	287	0.1	3.633	0.441	0.77
290         0.1         3.567         0.45         0.767           291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.787           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803	288	0.1	3.667	0.46	0.781
291         0.1         3.6         0.454         0.758           292         0.1         3.9         0.452         0.787           293         0.1         3.767         0.46         0.779           294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.449         0.779           306         0.1         3.667         0.449         0.7	289	0.1	3.467	0.443	0.763
292         0.1         3.9         0.452         0.787           293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.813           296         0.1         3.9         0.48         0.826           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	290	0.1	3.567	0.45	0.767
293         0.1         3.767         0.46         0.775           294         0.1         3.667         0.461         0.775           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.825           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	291	0.1	3.6	0.454	0.758
294         0.1         3.667         0.461         0.779           295         0.1         3.8         0.484         0.815           296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.8367         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	292	0.1	3.9	0.452	0.787
295         0.1         3.8         0.484         0.813           296         0.1         3.9         0.48         0.823           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	293	0.1	3.767	0.46	0.779
296         0.1         3.9         0.48         0.822           297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	294	0.1	3.667	0.461	0.779
297         0.1         3.967         0.471         0.829           298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	295	0.1	3.8	0.484	0.815
298         0.1         3.867         0.482         0.826           299         0.1         3.833         0.451         0.788           300         0.1         3.667         0.462         0.79           301         0.1         4.133         0.471         0.829           302         0.1         4         0.45         0.808           303         0.1         3.9         0.429         0.773           304         0.1         3.9         0.439         0.775           305         0.067         4.067         0.454         0.803           306         0.1         3.667         0.449         0.779	296	0.1	3.9	0.48	0.822
299     0.1     3.833     0.451     0.788       300     0.1     3.667     0.462     0.79       301     0.1     4.133     0.471     0.829       302     0.1     4     0.45     0.808       303     0.1     3.9     0.429     0.773       304     0.1     3.9     0.439     0.773       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.779	297	0.1	3.967	0.471	0.829
300     0.1     3.667     0.462     0.79       301     0.1     4.133     0.471     0.829       302     0.1     4     0.45     0.808       303     0.1     3.9     0.429     0.773       304     0.1     3.9     0.439     0.775       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.779	298	0.1	3.867	0.482	0.826
301     0.1     4.133     0.471     0.829       302     0.1     4     0.45     0.808       303     0.1     3.9     0.429     0.773       304     0.1     3.9     0.439     0.775       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.779	299	0.1	3.833	0.451	0.788
302     0.1     4     0.45     0.808       303     0.1     3.9     0.429     0.773       304     0.1     3.9     0.439     0.775       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.775	300	0.1	3.667	0.462	0.79
303     0.1     3.9     0.429     0.773       304     0.1     3.9     0.439     0.775       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.779	301	0.1	4.133	0.471	0.829
304     0.1     3.9     0.439     0.775       305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.775	302	0.1	4	0.45	0.808
305     0.067     4.067     0.454     0.803       306     0.1     3.667     0.449     0.779	303	0.1	3.9	0.429	0.773
306 0.1 3.667 0.449 0.779	304	0.1	3.9	0.439	0.775
	305	0.067	4.067	0.454	0.803
307 0.1 3.9 0.476 0.816	306	0.1	3.667	0.449	0.779
	307	0.1	3.9	0.476	0.816
308 0.1 4.1 0.489 0.855	308	0.1	4.1	0.489	0.855
309 0.1 3.933 0.466 0.815	309	0.1	3.933	0.466	0.815
310 0.1 4.033 0.48 0.812	310	0.1	4.033	0.48	0.812

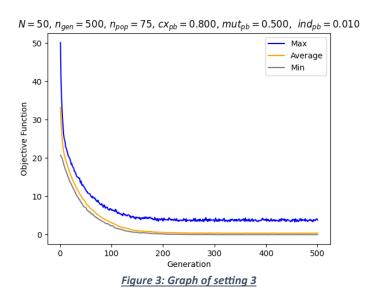
211	Λ 1	2.7	0.450	0.700
311	0.1	3.7	0.459	0.766
312	0.1	3.733	0.428	0.754
313	0.1	4.067	0.481	0.832
314	0.067	3.733	0.494	0.82
315	0.067	3.833	0.49	0.808
316	0.067	4.367	0.47	0.832
317	0.067	3.467	0.442	0.753
318	0.067	3.967	0.476	0.819
319	0.067	3.967	0.48	0.832
320	0.067	3.833	0.467	0.81
321	0.067	3.633	0.435	0.766
322	0.067	3.833	0.458	0.824
323	0.067	3.833	0.461	0.815
324	0.067	3.7	0.435	0.78
325	0.067	3.733	0.439	0.801
325	0.067	3.833	0.439	0.794
-				
327	0.067	3.8	0.444	0.822
328	0.067	4.133	0.476	0.861
329	0.067	3.733	0.433	0.796
330	0.067	3.6	0.451	0.793
331	0.067	4.233	0.461	0.855
332	0.067	2.0	0.439	0.813
333	0.067	3.9	0.465	0.832
334	0.067	3.867	0.452	0.818
335	0.067	4.033	0.438	0.81 0.795
336 337	0.067 0.067	3.633 4.2	0.44 0.471	0.793
337	0.067		0.471	0.792
339	0.033		0.399	0.744
340	0.067	4.267	0.46	0.855
341	0.067	3.733	0.422	0.785
342	0.033		0.428	0.815
343	0.033		0.422	0.773
344	0.033	3.8	0.443	0.81
345	0.033	3.8	0.443	0.806
346	0.033		0.438	0.807
347	0.033	3.4	0.412	0.762
348	0.033		0.442	0.823
349	0.033		0.406	0.765
350	0.033		0.421	0.842
351	0.033	3.767	0.425	0.812

353					
354         0.033         3.433         0.396         0.764           355         0.033         3.7         0.432         0.807           356         0.033         4.033         0.462         0.854           357         0.033         3.8         0.412         0.803           358         0.033         3.567         0.378         0.762           359         0.033         3.667         0.405         0.799           360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.824           362         0.033         4.067         0.42         0.835           363         0.033         3.567         0.415         0.806           364         0.033         3.567         0.429         0.811           365         0.033         3.567         0.429         0.811           366         0.033         3.567         0.429         0.811           366         0.033         3.567         0.449         0.81           367         0.033         3.567         0.441         0.83           368         0.033         4.1 <td>352</td> <td>0.033</td> <td>3.733</td> <td>0.43</td> <td>0.814</td>	352	0.033	3.733	0.43	0.814
355         0.033         3.7         0.432         0.807           356         0.033         4.033         0.462         0.854           357         0.033         3.8         0.412         0.803           358         0.033         3.567         0.378         0.762           359         0.033         3.667         0.405         0.795           360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.823           362         0.033         4.067         0.42         0.833           363         0.033         3.867         0.397         0.788           364         0.033         3.567         0.429         0.811           365         0.033         3.567         0.429         0.811           366         0.033         3.767         0.429         0.811           367         0.033         3.867         0.441         0.838           368         0.033         3.867         0.441         0.838           368         0.033         4.035         0.441         0.838           370         0.033         3.533	353	0.033	3.867	0.407	0.798
356         0.033         4.033         0.462         0.854           357         0.033         3.8         0.412         0.803           358         0.033         3.567         0.378         0.762           359         0.033         3.667         0.405         0.799           360         0.033         3.933         0.43         0.841           361         0.033         4.067         0.42         0.83           363         0.033         3.70         0.415         0.80           364         0.033         3.867         0.397         0.78           365         0.033         3.567         0.429         0.811           366         0.033         3.567         0.429         0.811           366         0.033         3.567         0.429         0.811           366         0.033         3.567         0.429         0.811           367         0.033         3.567         0.441         0.83           368         0.033         4.1         0.459         0.87           369         0.033         4.03         0.438         0.85           370         0.033         3.533	354	0.033	3.433	0.396	0.764
357         0.033         3.8         0.412         0.803           358         0.033         3.567         0.378         0.762           359         0.033         3.667         0.405         0.793           360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.824           362         0.033         3.7         0.415         0.804           364         0.033         3.7         0.415         0.803           365         0.033         3.567         0.429         0.811           366         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.567         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         3.567         0.441         0.838           370         0.033         3.533         0.424         0.825           371         0.033         3.533         0.424         0.825           371         0.033         3.867 <td>355</td> <td>0.033</td> <td>3.7</td> <td>0.432</td> <td>0.807</td>	355	0.033	3.7	0.432	0.807
358         0.033         3.567         0.378         0.762           359         0.033         3.667         0.405         0.795           360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.824           362         0.033         4.067         0.42         0.833           363         0.033         3.70         0.415         0.806           364         0.033         3.567         0.429         0.811           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.429         0.811           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.859           370         0.033         3.533         0.424         0.823           371         0.033         3.533         0.424         0.823           372         0.033         3.867         0.393         0.795           373         0.033         3.86	356	0.033	4.033	0.462	0.854
359         0.033         3.667         0.405         0.795           360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.824           362         0.033         4.067         0.42         0.835           363         0.033         3.7         0.415         0.806           364         0.033         3.867         0.397         0.788           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.855           370         0.033         3.533         0.424         0.825           371         0.033         3.533         0.424         0.825           371         0.033         3.567         0.393         0.79           373         0.033         3.767         0.393         0.79           374         0.033         3.767 </td <td>357</td> <td>0.033</td> <td>3.8</td> <td>0.412</td> <td>0.803</td>	357	0.033	3.8	0.412	0.803
360         0.033         3.933         0.43         0.841           361         0.033         4.033         0.412         0.824           362         0.033         4.067         0.42         0.833           363         0.033         3.867         0.397         0.788           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.83           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.855           370         0.033         3.533         0.424         0.825           371         0.033         3.533         0.424         0.825           371         0.033         3.867         0.393         0.795           373         0.033         3.567         0.393         0.795           374         0.033         3.567         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         3.767	358	0.033	3.567	0.378	0.762
361         0.033         4.033         0.412         0.824           362         0.033         4.067         0.42         0.835           363         0.033         3.7         0.415         0.806           364         0.033         3.867         0.397         0.788           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.855           370         0.033         3.533         0.424         0.823           371         0.033         3.533         0.424         0.823           371         0.033         3.567         0.393         0.795           373         0.033         3.567         0.393         0.795           374         0.033         3.767         0.395         0.78           375         0.033         3.38         0.444         0.836           377         0.033         4.333<	359	0.033	3.667	0.405	0.795
362         0.033         4.067         0.42         0.835           363         0.033         3.7         0.415         0.806           364         0.033         3.867         0.397         0.788           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.83           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.855           370         0.033         3.533         0.424         0.825           371         0.033         3.867         0.393         0.795           372         0.033         3.537         0.406         0.83           372         0.033         3.767         0.395         0.75           374         0.033         3.767         0.395         0.75           374         0.033         4.333         0.432         0.835           375         0.033         3.867         0.404         0.838           376         0.033         4.333 <td>360</td> <td>0.033</td> <td>3.933</td> <td>0.43</td> <td>0.841</td>	360	0.033	3.933	0.43	0.841
363         0.033         3.7         0.415         0.806           364         0.033         3.867         0.397         0.788           365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.838           368         0.033         4.11         0.459         0.875           369         0.033         4.033         0.438         0.855           370         0.033         3.533         0.424         0.825           371         0.033         3.533         0.424         0.825           372         0.033         3.667         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.867         0.444         0.838           376         0.033         4.333         0.44         0.838           377         0.033         3.867         0.404         0.80           378         0.033         3.867	361	0.033	4.033	0.412	0.824
364	362	0.033	4.067	0.42	0.835
365         0.033         3.567         0.429         0.811           366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.852           370         0.033         3.533         0.424         0.825           371         0.033         4.2         0.406         0.83           372         0.033         3.867         0.393         0.795           373         0.033         3.767         0.395         0.76           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.80           378         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.80           378         0.033         3.9	363	0.033	3.7	0.415	0.806
366         0.033         3.733         0.437         0.827           367         0.033         3.867         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.853           370         0.033         3.533         0.424         0.825           371         0.033         4.2         0.406         0.83           372         0.033         3.667         0.393         0.795           373         0.033         3.767         0.395         0.75           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         3.8         0.44         0.838           377         0.033         3.867         0.404         0.809           378         0.033         3.867         0.404         0.809           378         0.033         3.867         0.404         0.809           378         0.033         3.9         0.427         0.846           380         0.033         3.9	364	0.033	3.867	0.397	0.788
367         0.033         3.867         0.441         0.838           368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.859           370         0.033         3.533         0.424         0.825           371         0.033         3.867         0.393         0.795           372         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.80           378         0.033         3.867         0.404         0.80           379         0.033         3.9         0.427         0.84           380         0.033         3.9         0.427         0.84           380         0.033         3.8         0.411         0.81           381         0.033         3.8         0.411         0.81           382         0.033         3.6	365	0.033	3.567	0.429	0.811
368         0.033         4.1         0.459         0.877           369         0.033         4.033         0.438         0.859           370         0.033         3.533         0.424         0.825           371         0.033         4.2         0.406         0.83           372         0.033         3.867         0.393         0.795           374         0.033         4.067         0.432         0.835           375         0.033         4.333         0.44         0.838           376         0.033         4.333         0.43         0.86           377         0.033         3.867         0.404         0.80           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.84           380         0.033         3.6         0.385         0.759           381         0.033         3.6         0.385         0.759           381         0.033         3.6         0.385         0.759           381         0.033         3.6         0.385         0.759           382         0.033         3.633	366	0.033	3.733	0.437	0.827
369         0.033         4.033         0.438         0.859           370         0.033         3.533         0.424         0.825           371         0.033         4.2         0.406         0.83           372         0.033         3.867         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.86           377         0.033         3.867         0.404         0.80           378         0.033         3.9         0.427         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.8         0.411         0.81           381         0.033         3.6         0.385         0.755           381         0.033         3.6         0.385         0.755           382         0.033         3.633         0.395         0.78           383         0.033         3.733 <td< td=""><td>367</td><td>0.033</td><td>3.867</td><td>0.441</td><td>0.838</td></td<>	367	0.033	3.867	0.441	0.838
370         0.033         3.533         0.424         0.825           371         0.033         4.2         0.406         0.83           372         0.033         3.867         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.80           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.6         0.385         0.759           382         0.033         3.63         0.411         0.81           382         0.033         3.733         0.384         0.768           383         0.033         3.733         0.384         0.768           384         0.033         3.733 <t< td=""><td>368</td><td>0.033</td><td>4.1</td><td>0.459</td><td>0.877</td></t<>	368	0.033	4.1	0.459	0.877
371         0.033         4.2         0.406         0.83           372         0.033         3.867         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           380         0.033         3.9         0.427         0.846           380         0.033         3.8         0.411         0.81           381         0.033         3.8         0.411         0.81           382         0.033         3.6         0.385         0.755           383         0.033         3.633         0.395         0.78           384         0.033         3.733         0.384         0.768           385         0.033         3.733         0.384         0.768           386         0.033         3.833	369	0.033	4.033	0.438	0.859
372         0.033         3.867         0.393         0.795           373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.84           377         0.033         3.867         0.404         0.805           378         0.033         4.1         0.42         0.84           380         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.755           381         0.033         3.633         0.395         0.78           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         3.733         0.384         0.768           385         0.033         3.833         0.411         0.823           386         0.033         3.833         0.415         0.842           386         0.033         3.833	370	0.033	3.533	0.424	0.825
373         0.033         3.767         0.395         0.78           374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.63         0.395         0.78           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         3.733         0.384         0.768           385         0.033         3.733         0.384         0.768           386         0.033         3.833         0.411         0.823           387         0.033         3.833         0.415         0.813           388         0.033         3.833	371	0.033	4.2	0.406	0.83
374         0.033         4.067         0.432         0.835           375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.633         0.395         0.78           383         0.033         3.633         0.395         0.78           384         0.033         3.733         0.384         0.768           384         0.033         3.733         0.384         0.768           385         0.033         3.833         0.415         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.833	372	0.033	3.867	0.393	0.795
375         0.033         3.8         0.44         0.838           376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.633         0.395         0.78           383         0.033         3.633         0.395         0.78           384         0.033         3.733         0.384         0.768           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.833         0.415         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.795           390         0.033         3.933	373	0.033	3.767	0.395	0.78
376         0.033         4.333         0.43         0.88           377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.833         0.415         0.813           386         0.033         3.833         0.415         0.813           387         0.033         3.833         0.402         0.794           388         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.794           389         0.033         3.933         0.404         0.823           391         0.033         3.967	374	0.033	4.067	0.432	0.835
377         0.033         3.867         0.404         0.809           378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.76           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.833         0.415         0.813           386         0.033         3.833         0.415         0.813           387         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.794           389         0.033         3.933         0.404         0.823           391         0.033         3.933         0.404         0.823           392         0.033         3.967         0.41         0.831           392         0.033         3.967	375	0.033	3.8	0.44	0.838
378         0.033         4.1         0.42         0.84           379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.794           389         0.033         3.833         0.402         0.794           389         0.033         3.933         0.404         0.823           391         0.033         3.933         0.404         0.823           392         0.033         3.967         0.41         0.831           392         0.033         3.7	376	0.033	4.333	0.43	0.88
379         0.033         3.9         0.427         0.846           380         0.033         3.6         0.385         0.759           381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.76           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.833         0.415         0.813           386         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.567         0.427         0.798           394         0.033         3.567         0.427         0.798	377	0.033	3.867	0.404	0.809
380         0.033         3.6         0.385         0.759           381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.567         0.427         0.798           394         0.033         3.567         0.427         0.798	378	0.033	4.1	0.42	0.84
381         0.033         3.8         0.411         0.81           382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.9         0.434         0.839           394         0.033         3.567         0.427         0.798	379	0.033	3.9	0.427	0.846
382         0.033         3.633         0.395         0.78           383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.9         0.434         0.839           394         0.033         3.567         0.427         0.798	380	0.033	3.6	0.385	0.759
383         0.033         3.733         0.384         0.768           384         0.033         4.067         0.422         0.842           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.9         0.434         0.839           394         0.033         3.567         0.427         0.798	381	0.033	3.8	0.411	0.81
384         0.033         4.067         0.422         0.842           385         0.033         3.9         0.424         0.823           386         0.033         3.833         0.415         0.813           387         0.033         3.867         0.427         0.841           388         0.033         3.833         0.402         0.794           389         0.033         3.367         0.385         0.752           390         0.033         3.933         0.404         0.823           391         0.033         3.967         0.41         0.831           392         0.033         3.7         0.396         0.795           393         0.033         3.9         0.434         0.839           394         0.033         3.567         0.427         0.798	382	0.033	3.633	0.395	0.78
385       0.033       3.9       0.424       0.823         386       0.033       3.833       0.415       0.813         387       0.033       3.867       0.427       0.841         388       0.033       3.833       0.402       0.794         389       0.033       3.367       0.385       0.752         390       0.033       3.933       0.404       0.823         391       0.033       3.967       0.41       0.831         392       0.033       3.7       0.396       0.795         393       0.033       3.9       0.434       0.839         394       0.033       3.567       0.427       0.798	383	0.033	3.733	0.384	0.768
386       0.033       3.833       0.415       0.813         387       0.033       3.867       0.427       0.841         388       0.033       3.833       0.402       0.794         389       0.033       3.367       0.385       0.752         390       0.033       3.933       0.404       0.823         391       0.033       3.967       0.41       0.831         392       0.033       3.7       0.396       0.795         393       0.033       3.9       0.434       0.839         394       0.033       3.567       0.427       0.798	384	0.033	4.067	0.422	0.842
387       0.033       3.867       0.427       0.841         388       0.033       3.833       0.402       0.794         389       0.033       3.367       0.385       0.752         390       0.033       3.933       0.404       0.823         391       0.033       3.967       0.41       0.831         392       0.033       3.7       0.396       0.795         393       0.033       3.9       0.434       0.839         394       0.033       3.567       0.427       0.798	385	0.033	3.9	0.424	0.823
388       0.033       3.833       0.402       0.794         389       0.033       3.367       0.385       0.752         390       0.033       3.933       0.404       0.823         391       0.033       3.967       0.41       0.831         392       0.033       3.7       0.396       0.795         393       0.033       3.9       0.434       0.839         394       0.033       3.567       0.427       0.798	386	0.033	3.833	0.415	0.813
389     0.033     3.367     0.385     0.752       390     0.033     3.933     0.404     0.823       391     0.033     3.967     0.41     0.831       392     0.033     3.7     0.396     0.795       393     0.033     3.9     0.434     0.839       394     0.033     3.567     0.427     0.798					0.841
390       0.033       3.933       0.404       0.823         391       0.033       3.967       0.41       0.831         392       0.033       3.7       0.396       0.795         393       0.033       3.9       0.434       0.839         394       0.033       3.567       0.427       0.798	388	0.033	3.833	0.402	0.794
391     0.033     3.967     0.41     0.831       392     0.033     3.7     0.396     0.795       393     0.033     3.9     0.434     0.839       394     0.033     3.567     0.427     0.798	389				0.752
392     0.033     3.7     0.396     0.795       393     0.033     3.9     0.434     0.839       394     0.033     3.567     0.427     0.798	390			0.404	0.823
393     0.033     3.9     0.434     0.839       394     0.033     3.567     0.427     0.798					0.831
394 0.033 3.567 0.427 0.798					0.795
					0.839
395  0.033  3.533  0.415  0.785					0.798
	395	0.033	3.533	0.415	0.785

397					
398	396	0.033	3.767	0.423	0.803
399         0.033         3.767         0.408         0.806           400         0.033         3.933         0.417         0.822           401         0.033         3.933         0.411         0.813           402         0.033         3.833         0.411         0.813           403         0.033         3.867         0.423         0.838           404         0.033         3.833         0.395         0.792           406         0.033         3.833         0.396         0.75           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.789           409         0.033         3.73         0.402         0.788           410         0.033         3.73         0.402         0.788           411         0.033         3.733         0.372         0.771           412         0.033         3.733         0.372         0.771           412         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.	397	0.033	3.733	0.427	0.806
400         0.033         3.933         0.417         0.822           401         0.033         3.9         0.4         0.804           402         0.033         3.833         0.411         0.813           403         0.033         3.8         0.437         0.838           404         0.033         3.867         0.423         0.838           405         0.033         3.833         0.395         0.799           406         0.033         3.733         0.396         0.75           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.785           409         0.033         3.367         0.387         0.73           411         0.033         3.567         0.388         0.762           411         0.033         3.567         0.388         0.762           412         0.033         3.567         0.388         0.762           413         0.033         3.567         0.388         0.763           414         0.033         3.567         0.388         0.763           415         0.033         3.59 <td>398</td> <td>0.033</td> <td>4.1</td> <td>0.392</td> <td>0.808</td>	398	0.033	4.1	0.392	0.808
401         0.033         3.9         0.4         0.804           402         0.033         3.833         0.411         0.813           403         0.033         3.867         0.423         0.838           404         0.033         3.867         0.423         0.838           405         0.033         3.833         0.395         0.795           406         0.033         3.733         0.396         0.75           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.788           409         0.033         3.77         0.402         0.788           410         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.567         0.388         0.763           414         0.033         3.567         0.388         0.763           413         0.033         3.567         0.388         0.763           414         0.033         3.6         0.418         0.85           415         0.033         3.833 <td>399</td> <td>0.033</td> <td>3.767</td> <td>0.408</td> <td>0.806</td>	399	0.033	3.767	0.408	0.806
402         0.033         3.833         0.411         0.813           403         0.033         3.8         0.437         0.835           404         0.033         3.867         0.423         0.838           405         0.033         3.833         0.395         0.792           406         0.033         3.733         0.396         0.75           407         0.033         3.633         0.404         0.788           408         0.033         3.633         0.404         0.788           409         0.033         3.77         0.402         0.788           410         0.033         3.567         0.387         0.72           411         0.033         3.567         0.388         0.762           412         0.033         3.567         0.388         0.762           413         0.033         3.567         0.388         0.762           414         0.033         3.567         0.388         0.762           415         0.033         3.567         0.388         0.762           416         0.033         3.6         0.418         0.8           417         0.033         3.767 <td>400</td> <td>0.033</td> <td>3.933</td> <td>0.417</td> <td>0.822</td>	400	0.033	3.933	0.417	0.822
403         0.033         3.8         0.437         0.835           404         0.033         3.867         0.423         0.836           405         0.033         3.833         0.395         0.795           406         0.033         3.733         0.396         0.75           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.785           409         0.033         3.7         0.402         0.788           410         0.033         3.367         0.387         0.72           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.762           413         0.033         3.567         0.388         0.762           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.833         0.401         0.812           417         0.033         3.767         0.416         0.816           418         0.033         4.1	401	0.033	3.9	0.4	0.804
404         0.033         3.867         0.423         0.838           405         0.033         3.833         0.395         0.795           406         0.033         3.733         0.396         0.77           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.788           409         0.033         3.7         0.402         0.788           410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.762           413         0.033         3.567         0.388         0.763           414         0.033         3.567         0.388         0.763           414         0.033         3.6         0.418         0.81           415         0.033         3.833         0.401         0.812           416         0.033         3.767         0.416         0.816           418         0.033         3.767         0.416         0.816           419         0.033         4.1 <td>402</td> <td>0.033</td> <td>3.833</td> <td>0.411</td> <td>0.813</td>	402	0.033	3.833	0.411	0.813
405         0.033         3.833         0.395         0.795           406         0.033         3.733         0.396         0.75           407         0.033         3.867         0.416         0.816           408         0.033         3.633         0.404         0.786           409         0.033         3.367         0.387         0.72           410         0.033         3.367         0.387         0.72           411         0.033         3.567         0.388         0.763           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.798           414         0.033         3.833         0.401         0.812           415         0.033         3.833         0.401         0.812           416         0.033         3.833         0.401         0.812           417         0.033         3.767         0.416         0.814           418         0.033         4.1         0.418         0.83           419         0.033         3.8         0.437         0.84           421         0.033         3.8	403	0.033	3.8	0.437	0.839
406         0.033         3.733         0.396         0.75           407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.789           409         0.033         3.367         0.387         0.75           410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.762           413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.82           415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.828           417         0.033         3.767         0.416         0.814           418         0.033         4.1         0.418         0.83           419         0.033         3.767         0.416         0.844           420         0.033         3.8         0.437         0.84           421         0.033         3.7	404	0.033	3.867	0.423	0.838
407         0.033         3.867         0.416         0.818           408         0.033         3.633         0.404         0.789           409         0.033         3.7         0.402         0.788           410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.799           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.767         0.416         0.816           418         0.033         3.767         0.416         0.816           418         0.033         3.767         0.416         0.816           419         0.033         3.767         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7	405	0.033	3.833	0.395	0.795
408         0.033         3.633         0.404         0.785           409         0.033         3.7         0.402         0.788           410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.767         0.416         0.812           417         0.033         3.767         0.416         0.814           418         0.033         4.10         0.418         0.83           419         0.033         3.8         0.437         0.84           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.81           422         0.033         3.7         0.418         0.81           421         0.033         3.7         0	406	0.033	3.733	0.396	0.79
409         0.033         3.7         0.402         0.788           410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.82           415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.828           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.83           419         0.033         3.767         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.418         0.815           422         0.033         3.73         0.408         0.806           423         0.033         3.733         <	407	0.033	3.867	0.416	0.818
410         0.033         3.367         0.387         0.75           411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.796           414         0.033         3.6         0.418         0.6           415         0.033         3.833         0.401         0.812           416         0.033         3.767         0.416         0.816           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.83           419         0.033         4.167         0.416         0.847           420         0.033         3.7         0.418         0.81           421         0.033         3.7         0.418         0.81           422         0.033         3.7         0.418         0.81           422         0.033         3.7         0.418         0.81           422         0.033         3.7         0.408         0.80           422         0.033         3.73         0.	408	0.033	3.633	0.404	0.789
411         0.033         3.733         0.372         0.771           412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.7         0.418         0.813           421         0.033         3.7         0.418         0.813           422         0.033         3.7         0.418         0.815           422         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.733         0.396         0.75           425         0.033         3.533	409	0.033	3.7	0.402	0.788
412         0.033         3.567         0.388         0.763           413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.826           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.7         0.418         0.847           421         0.033         3.7         0.418         0.813           422         0.033         3.7         0.418         0.813           422         0.033         3.7         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.733         0.396         0.75           425         0.033         3.533         <	410	0.033	3.367	0.387	0.75
413         0.033         3.9         0.398         0.798           414         0.033         3.6         0.418         0.8           415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.828           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.83           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.733         0.396         0.75           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0	411	0.033	3.733	0.372	0.771
414         0.033         3.6         0.418         0.81           415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.828           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.73         0.408         0.806           424         0.033         3.73         0.408         0.806           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.5 <td< td=""><td>412</td><td>0.033</td><td>3.567</td><td>0.388</td><td>0.763</td></td<>	412	0.033	3.567	0.388	0.763
415         0.033         3.833         0.401         0.812           416         0.033         3.9         0.405         0.828           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           423         0.033         3.73         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.533         0.37         0.752           428         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.8	413	0.033	3.9	0.398	0.798
416         0.033         3.9         0.405         0.826           417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           423         0.033         3.73         0.408         0.806           424         0.033         3.733         0.396         0.75           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.8         0.43         0.83           429         0.033         3.83         0.397         0.794           430         0.033         3.88         0.4	414	0.033	3.6	0.418	0.8
417         0.033         3.767         0.416         0.816           418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         3.7         0.408         0.806           423         0.033         3.733         0.396         0.75           424         0.033         3.733         0.396         0.75           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.5         0.401         0.785           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.833         0.386         0.778           432         0.033         3.60	415	0.033	3.833	0.401	0.812
418         0.033         4.1         0.418         0.836           419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         4         0.425         0.853           423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.8         0.43         0.83           430         0.033         3.833         0.386         0.778           431         0.033         3.833         0.386         0.7768           432         0.033         3.6         0.375         0.768           433         0.033         3.667         0.3	416	0.033	3.9	0.405	0.828
419         0.033         4.167         0.416         0.847           420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         4         0.425         0.853           423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.833         0.386         0.778           432         0.033         3.8         0.404         0.802           433         0.033         3.6         0.375         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.633 <t< td=""><td>417</td><td>0.033</td><td>3.767</td><td>0.416</td><td>0.816</td></t<>	417	0.033	3.767	0.416	0.816
420         0.033         3.8         0.437         0.84           421         0.033         3.7         0.418         0.815           422         0.033         4         0.425         0.853           423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.833         0.386         0.778           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.467         0.386         0.765           433         0.033         3.633         0.436         0.816           434         0.033         3.633         0.436         0.816           435         0.033         3.937 <t< td=""><td>418</td><td>0.033</td><td>4.1</td><td>0.418</td><td>0.836</td></t<>	418	0.033	4.1	0.418	0.836
421         0.033         3.7         0.418         0.815           422         0.033         4         0.425         0.853           423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.5         0.401         0.785           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.937         0.412         0.824           436         0.033         3.933         <	419	0.033	4.167	0.416	0.847
422         0.033         4         0.425         0.853           423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.633         0.436         0.816           434         0.033         3.633         0.436         0.816           435         0.033         3.933         0.412         0.824           436         0.033         3.933         0.412         0.799           438         0.033         3.533         <	420	0.033	3.8	0.437	0.84
423         0.033         3.7         0.408         0.806           424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.967         0.436         0.854           436         0.033         3.933         0.412         0.824           437         0.033         3.567         0.42         0.799           438         0.033         3.533	421	0.033	3.7	0.418	0.815
424         0.033         3.733         0.396         0.79           425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.967         0.436         0.854           436         0.033         3.933         0.412         0.824           437         0.033         3.567         0.42         0.799           438         0.033         3.533         0.407         0.781	422	0.033		0.425	0.853
425         0.033         3.767         0.39         0.785           426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.967         0.436         0.854           436         0.033         3.933         0.412         0.824           437         0.033         3.567         0.42         0.799           438         0.033         3.533         0.407         0.781	423	0.033	3.7	0.408	0.806
426         0.033         3.533         0.37         0.752           427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.967         0.436         0.854           436         0.033         3.933         0.412         0.824           437         0.033         3.567         0.42         0.799           438         0.033         3.533         0.407         0.781	424	0.033	3.733	0.396	0.79
427         0.033         3.5         0.401         0.785           428         0.033         3.8         0.43         0.83           429         0.033         3.5         0.397         0.794           430         0.033         3.833         0.386         0.778           431         0.033         3.8         0.404         0.802           432         0.033         3.6         0.375         0.768           433         0.033         3.467         0.386         0.765           434         0.033         3.633         0.436         0.816           435         0.033         3.967         0.436         0.854           436         0.033         3.933         0.412         0.824           437         0.033         3.567         0.42         0.799           438         0.033         3.533         0.407         0.781	425	0.033	3.767	0.39	0.785
428       0.033       3.8       0.43       0.83         429       0.033       3.5       0.397       0.794         430       0.033       3.833       0.386       0.778         431       0.033       3.8       0.404       0.802         432       0.033       3.6       0.375       0.768         433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	426	0.033	3.533	0.37	0.752
429       0.033       3.5       0.397       0.794         430       0.033       3.833       0.386       0.778         431       0.033       3.8       0.404       0.802         432       0.033       3.6       0.375       0.768         433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	427	0.033	3.5	0.401	0.785
430       0.033       3.833       0.386       0.778         431       0.033       3.8       0.404       0.802         432       0.033       3.6       0.375       0.768         433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	428	0.033	3.8	0.43	0.83
431       0.033       3.8       0.404       0.802         432       0.033       3.6       0.375       0.768         433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	429	0.033	3.5	0.397	0.794
432       0.033       3.6       0.375       0.768         433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	430	0.033	3.833	0.386	0.778
433       0.033       3.467       0.386       0.765         434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781					0.802
434       0.033       3.633       0.436       0.816         435       0.033       3.967       0.436       0.854         436       0.033       3.933       0.412       0.824         437       0.033       3.567       0.42       0.799         438       0.033       3.533       0.407       0.781	432	0.033	3.6	0.375	0.768
435     0.033     3.967     0.436     0.854       436     0.033     3.933     0.412     0.824       437     0.033     3.567     0.42     0.799       438     0.033     3.533     0.407     0.781					0.765
436     0.033     3.933     0.412     0.824       437     0.033     3.567     0.42     0.799       438     0.033     3.533     0.407     0.781	434		3.633	0.436	0.816
437     0.033     3.567     0.42     0.799       438     0.033     3.533     0.407     0.781					0.854
438 0.033 3.533 0.407 0.781					0.824
					0.799
439 0.033 3.633 0.404 0.791					0.781
	439	0.033	3.633	0.404	0.791

441         0.033         3.667         0.436         0.815           442         0.033         3.767         0.404         0.8           443         0.033         3.533         0.398         0.785           444         0.033         4.067         0.399         0.822           445         0.033         3.633         0.397         0.794           446         0.033         3.633         0.414         0.827           447         0.033         3.77         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.807           451         0.033         3.767         0.41         0.812           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.407         0.803           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.832           455         0.033         3.66					
442         0.033         3.767         0.404         0.8           443         0.033         3.533         0.398         0.788           444         0.033         4.067         0.399         0.823           445         0.033         3.633         0.397         0.792           446         0.033         4.033         0.414         0.827           447         0.033         3.7         0.392         0.792           448         0.033         3.733         0.412         0.803           449         0.033         3.733         0.412         0.803           450         0.033         3.60         0.42         0.803           451         0.033         3.767         0.41         0.812           452         0.033         3.533         0.422         0.803           453         0.033         3.533         0.422         0.803           454         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.832           455         0.033         3.637         0.422         0.792           458         0.033         3.633<	440	0.033	3.7	0.392	0.786
443         0.033         3.533         0.398         0.785           444         0.033         4.067         0.399         0.823           445         0.033         3.633         0.397         0.794           446         0.033         4.033         0.414         0.827           447         0.033         3.7         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.807           451         0.033         3.66         0.42         0.805           452         0.033         3.533         0.432         0.806           453         0.033         3.533         0.432         0.806           454         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.792           456         0.033         3.633         0.409         0.792           458         0.033         3.6	441	0.033	3.667	0.436	0.819
444         0.033         4.067         0.399         0.823           445         0.033         3.633         0.397         0.794           446         0.033         3.633         0.397         0.792           447         0.033         3.7         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.803           450         0.033         3.833         0.407         0.807           451         0.033         3.767         0.41         0.812           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.795           456         0.033         3.667         0.422         0.795           455         0.033         3.633         0.409         0.792           458         0.033         3.633         0.409         0.792           458         0.033         3.7	442	0.033	3.767	0.404	0.8
445         0.033         3.633         0.397         0.794           446         0.033         4.033         0.414         0.827           447         0.033         3.7         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.807           451         0.033         3.6         0.42         0.803           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.799           456         0.033         3.9         0.434         0.835           457         0.033         3.637         0.422         0.799           458         0.033         3.4         0.391         0.79           458         0.033         3.4         0.391         0.79           458         0.033         3.767	443	0.033	3.533	0.398	0.785
446         0.033         4.033         0.414         0.827           447         0.033         3.7         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.803           450         0.033         3.833         0.407         0.807           451         0.033         3.66         0.42         0.803           452         0.033         3.533         0.432         0.809           454         0.033         3.533         0.432         0.809           454         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.799           456         0.033         3.667         0.422         0.799           458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           459         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         3.667 <td>444</td> <td>0.033</td> <td>4.067</td> <td>0.399</td> <td>0.823</td>	444	0.033	4.067	0.399	0.823
447         0.033         3.7         0.392         0.792           448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.807           451         0.033         3.6         0.42         0.803           452         0.033         3.533         0.432         0.806           454         0.033         3.867         0.422         0.83           455         0.033         3.667         0.422         0.792           455         0.033         3.667         0.422         0.792           456         0.033         3.633         0.409         0.792           458         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.767         0.411         0.801           461         0.033         3.667	445	0.033	3.633	0.397	0.794
448         0.033         3.867         0.405         0.811           449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.805           451         0.033         3.767         0.41         0.812           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.667         0.422         0.832           455         0.033         3.667         0.422         0.799           456         0.033         3.9         0.434         0.835           457         0.033         3.633         0.409         0.794           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.667         0.429         0.838           461         0.033         3.667         0.429         0.838           461         0.033         3.667         0.44         0.777           462         0.033         3.56	446	0.033	4.033	0.414	0.827
449         0.033         3.733         0.412         0.805           450         0.033         3.833         0.407         0.807           451         0.033         3.6         0.42         0.806           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.795           456         0.033         3.633         0.409         0.792           458         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.767         0.411         0.801           461         0.033         3.567         0.429         0.838           461         0.033         3.567         0.425         0.77           462         0.033         3.567         0.425         0.75           463         0.033         3.933	447	0.033	3.7	0.392	0.792
450         0.033         3.833         0.407         0.807           451         0.033         3.6         0.42         0.805           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.799           456         0.033         3.633         0.409         0.792           458         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.567         0.41         0.801           461         0.033         3.567         0.429         0.838           461         0.033         3.567         0.425         0.77           462         0.033         3.567         0.425         0.75           463         0.033         3.933         0.403         0.804           464         0.033         3.933<	448	0.033	3.867	0.405	0.811
451         0.033         3.6         0.42         0.805           452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.795           456         0.033         3.9         0.434         0.835           457         0.033         3.633         0.409         0.792           458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         3.667         0.429         0.838           461         0.033         3.567         0.411         0.801           462         0.033         3.567         0.429         0.838           461         0.033         3.567         0.425         0.77           462         0.033         3.933         0.402         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.633 <td>449</td> <td>0.033</td> <td>3.733</td> <td>0.412</td> <td>0.805</td>	449	0.033	3.733	0.412	0.805
452         0.033         3.767         0.41         0.812           453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.795           456         0.033         3.9         0.434         0.839           457         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.75           463         0.033         3.567         0.425         0.77           462         0.033         3.93         0.442         0.838           464         0.033         3.93         0.442         0.838           465         0.033         3.933         0.403         0.806           466         0.033         3.637         0.383         0.766           467         0.033         3.733 <td>450</td> <td>0.033</td> <td>3.833</td> <td>0.407</td> <td>0.807</td>	450	0.033	3.833	0.407	0.807
453         0.033         3.533         0.432         0.805           454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.795           456         0.033         3.9         0.434         0.835           457         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         3.667         0.4         0.777           461         0.033         3.567         0.425         0.75           462         0.033         3.567         0.425         0.77           463         0.033         3.93         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.933         0.403         0.807           466         0.033         3.633         0.394         0.776           466         0.033         3.733         0.392         0.795           467         0.033         3.733<	451	0.033	3.6	0.42	0.805
454         0.033         3.867         0.422         0.832           455         0.033         3.667         0.422         0.799           456         0.033         3.9         0.434         0.839           457         0.033         3.633         0.409         0.792           458         0.033         3.767         0.411         0.801           459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.567         0.429         0.838           462         0.033         3.567         0.425         0.77           463         0.033         3.9         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.933         0.403         0.807           466         0.033         3.3667         0.342         0.838           465         0.033         3.3637         0.432         0.807           466         0.033         3.733         0.394         0.772           467         0.033         3.	452	0.033	3.767	0.41	0.812
455         0.033         3.667         0.422         0.799           456         0.033         3.9         0.434         0.835           457         0.033         3.633         0.409         0.792           458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.567         0.425         0.77           462         0.033         3.567         0.425         0.75           463         0.033         3.933         0.403         0.807           464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.793           468         0.033         3.733         0.392         0.793           468         0.033         3.407         0.412         0.773           470         0.033         3.5 <td>453</td> <td>0.033</td> <td>3.533</td> <td>0.432</td> <td>0.809</td>	453	0.033	3.533	0.432	0.809
456         0.033         3.9         0.434         0.835           457         0.033         3.633         0.409         0.792           458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.75           463         0.033         3.933         0.403         0.807           464         0.033         3.933         0.403         0.807           465         0.033         3.633         0.394         0.776           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         3.733         0.392         0.795           468         0.033         3.4         0.412         0.773           470         0.033         3.5         0.43         0.8           471         0.033         3.5	454	0.033	3.867	0.422	0.832
457         0.033         3.633         0.409         0.792           458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.79           463         0.033         3.99         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.394         0.776           468         0.033         3.733         0.392         0.795           468         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.81           472         0.033         3.5	455	0.033	3.667	0.422	0.799
458         0.033         3.4         0.391         0.76           459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.75           463         0.033         3.93         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         3.733         0.392         0.795           468         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.81           472         0.033         3.5         0.43         0.81           473         0.033         3.567	456	0.033	3.9	0.434	0.839
459         0.033         3.767         0.411         0.801           460         0.033         4.133         0.429         0.838           461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.79           463         0.033         3.99         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.8         0.432         0.815           472         0.033         3.5         0.43         0.85           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           475         0.033         3.567	457	0.033	3.633	0.409	0.792
460         0.033         4.133         0.429         0.838           461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.79           463         0.033         3.93         0.403         0.807           464         0.033         3.933         0.403         0.807           465         0.033         3.667         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.5         0.43         0.8           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.813           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           475         0.033         3.567	458	0.033	3.4	0.391	0.76
461         0.033         3.667         0.4         0.777           462         0.033         3.567         0.425         0.79           463         0.033         3.9         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.633         0.394         0.776           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.8         0.432         0.815           472         0.033         3.8         0.432         0.815           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           476         0.033         3.733	459	0.033	3.767	0.411	0.801
462         0.033         3.567         0.425         0.79           463         0.033         3.9         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.762           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         3.567         0.401         0.779           475         0.033         3.967         0.412         0.825           476         0.033         3.733         0.421         0.825           477         0.033         3.733         0.421         0.815           478         0.033         3.667	460	0.033	4.133	0.429	0.838
463         0.033         3.9         0.442         0.838           464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.762           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           475         0.033         3.733         0.421         0.825           477         0.033         3.733         0.421         0.815           478         0.033         3.733         0.421         0.815           479         0.033         3.667	461	0.033	3.667	0.4	0.777
464         0.033         3.933         0.403         0.807           465         0.033         3.467         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           476         0.033         3.733         0.421         0.825           477         0.033         3.733         0.421         0.815           478         0.033         3.667         0.42         0.813           479         0.033         3.667         0.407         0.795           481         0.033         3.667	462	0.033	3.567	0.425	0.79
465         0.033         3.467         0.383         0.763           466         0.033         3.633         0.394         0.776           467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         3.567         0.401         0.779           475         0.033         3.567         0.401         0.779           475         0.033         3.967         0.412         0.825           476         0.033         4.067         0.412         0.825           477         0.033         3.733         0.421         0.813           479         0.033         3.667         0.42         0.813           479         0.033         3.667         0.407         0.795           481         0.033         3.637	463	0.033	3.9	0.442	0.838
466       0.033       3.633       0.394       0.776         467       0.033       3.733       0.392       0.795         468       0.033       4.167       0.438       0.856         469       0.033       3.4       0.412       0.773         470       0.033       3.967       0.416       0.82         471       0.033       3.5       0.43       0.8         472       0.033       3.8       0.432       0.815         473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.825         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       3.633       0.428       0.813	464	0.033	3.933	0.403	0.807
467         0.033         3.733         0.392         0.795           468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         4.1         0.431         0.852           474         0.033         3.567         0.401         0.779           475         0.033         3.967         0.412         0.825           476         0.033         4.067         0.412         0.829           477         0.033         3.733         0.421         0.815           478         0.033         3.667         0.42         0.813           479         0.033         3.667         0.407         0.795           481         0.033         3.633         0.428         0.813           482         0.033         3.633         0.428         0.813	465	0.033	3.467	0.383	0.763
468         0.033         4.167         0.438         0.856           469         0.033         3.4         0.412         0.773           470         0.033         3.967         0.416         0.82           471         0.033         3.5         0.43         0.8           472         0.033         3.8         0.432         0.815           473         0.033         4.1         0.431         0.852           474         0.033         3.567         0.401         0.779           475         0.033         3.967         0.412         0.825           476         0.033         4.067         0.412         0.829           477         0.033         3.733         0.421         0.815           478         0.033         3.667         0.42         0.813           479         0.033         3.8         0.416         0.808           480         0.033         3.667         0.407         0.795           481         0.033         3.633         0.428         0.813           482         0.033         3.633         0.428         0.813	466	0.033	3.633	0.394	0.776
469       0.033       3.4       0.412       0.773         470       0.033       3.967       0.416       0.82         471       0.033       3.5       0.43       0.8         472       0.033       3.8       0.432       0.815         473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       3.633       0.428       0.813	467	0.033	3.733	0.392	0.795
470       0.033       3.967       0.416       0.82         471       0.033       3.5       0.43       0.8         472       0.033       3.8       0.432       0.815         473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       3.633       0.428       0.813	468	0.033	4.167	0.438	0.856
471       0.033       3.5       0.43       0.8         472       0.033       3.8       0.432       0.815         473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       3.633       0.428       0.813         482       0.033       3.633       0.428       0.813	469	0.033	3.4	0.412	0.773
472       0.033       3.8       0.432       0.815         473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813	470	0.033	3.967	0.416	
473       0.033       4.1       0.431       0.852         474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813	471	0.033	3.5	0.43	0.8
474       0.033       3.567       0.401       0.779         475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813	472	0.033	3.8	0.432	0.815
475       0.033       3.967       0.412       0.825         476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813				0.431	0.852
476       0.033       4.067       0.412       0.829         477       0.033       3.733       0.421       0.815         478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813		0.033	3.567	0.401	0.779
477     0.033     3.733     0.421     0.815       478     0.033     3.667     0.42     0.813       479     0.033     3.8     0.416     0.808       480     0.033     3.667     0.407     0.795       481     0.033     4.1     0.41     0.827       482     0.033     3.633     0.428     0.813					0.825
478       0.033       3.667       0.42       0.813         479       0.033       3.8       0.416       0.808         480       0.033       3.667       0.407       0.795         481       0.033       4.1       0.41       0.827         482       0.033       3.633       0.428       0.813	476				0.829
479     0.033     3.8     0.416     0.808       480     0.033     3.667     0.407     0.795       481     0.033     4.1     0.41     0.827       482     0.033     3.633     0.428     0.813					0.815
480     0.033     3.667     0.407     0.795       481     0.033     4.1     0.41     0.827       482     0.033     3.633     0.428     0.813					0.813
481     0.033     4.1     0.41     0.827       482     0.033     3.633     0.428     0.813					0.808
482 0.033 3.633 0.428 0.813	-				0.795
					0.827
483 0.033 3.667 0.431 0.816					0.813
	483	0.033	3.667	0.431	0.816

484	0.033	3.633	0.402	0.776
485			0.394	
486	0.033	3.433	0.399	0.78
487	0.033	3.633	0.395	0.787
488	0.033	3.8	0.412	0.81
489	0.033	3.933	0.394	0.804
490	0	3.667	0.394	0.803
491	0	3.733	0.408	0.806
492	0	3.733	0.399	0.802
493	0.033	4	0.42	0.834
494	0.033	3.5	0.408	0.787
495	0.033	3.967	0.419	0.822
496	0	3.9	0.384	0.799
497	0.033	3.867	0.394	0.792
498	0.033	3.4	0.408	0.782
499	0	4.067	0.428	0.846
500	0	3.7	0.414	0.814



Setting 4: N = 50,  $n_{gen} = 500$ , pop = 100, expb = 0.8, mutpb = 1, indpb = 0.002

## **Table of Setting 4**

Generation	Minimum Fitness	Maximum Fitness	Average Fitness	Standard deviation
1	20.933	50.567	32.873	5.783
2	20.5	41.567	29.602	4.316
3	20.3	35.867	27.337	3.435

4	20	33.133	25.53	2.875
5	19.667	30.267	24.024	2.271
6	19.2	27.9	22.957	1.848
7	18.8	26.7	22.171	1.556
8	18.6	25.7	21.55	1.364
9	18.267	24.333	20.935	1.225
10	17.767	24	20.42	1.185
11	17.533	23.133	19.865	1.08
12	16.9	22.6	19.398	1.044
13	16.667	22	18.943	0.979
14	16.367	21.5	18.529	0.93
15	15.9	21.2	18.125	0.909
16	15.6	20.567	17.761	0.878
17	15.3	20.167	17.396	0.872
18	15.033	19.833	17.055	0.851
19	14.8	19.233	16.708	0.824
20	14.433	18.967	16.376	0.83
21	14	18.733	16.028	0.829
22	13.533	18.533	15.696	0.826
23	13.567	18.333	15.374	0.824
24	13.267	17.8	15.052	0.792
25	13.033	17.4	14.738	0.787
26	12.767	17.433	14.429	0.81
27	12.3	16.633	14.113	0.767
28	12.1	16.1	13.786	0.728
29	11.733	16.033	13.489	0.745
30	11.533	15.933	13.229	0.743
31	11.367	15.5	12.958	0.705
32	11.267	15.267	12.73	0.725
33	11.133	15.1	12.472	0.715
34	10.833	14.833	12.211	0.696
35	10.533	14.2	11.981	0.649
36	10.4	14.367	11.752	0.658
37	10.167	14.167	11.54	0.659
38	10.067	13.767	11.334	0.618
39	9.9	13.7	11.146	0.633

41         9.533         13.367         10.749         0.632           42         9.333         13.067         10.545         0.621           43         9.167         12.6         10.352         0.607           44         9.067         12.633         10.192         0.594           45         8.967         12.4         10.029         0.593           46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.605           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5					
42         9.333         13.067         10.545         0.621           43         9.167         12.6         10.352         0.607           44         9.067         12.633         10.192         0.594           45         8.967         12.4         10.029         0.593           46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.605           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567	40	9.733	13.467	10.956	0.645
43         9.167         12.6         10.352         0.607           44         9.067         12.633         10.192         0.594           45         8.967         12.4         10.029         0.593           46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.605           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4 <t< td=""><td>41</td><td>9.533</td><td>13.367</td><td>10.749</td><td>0.632</td></t<>	41	9.533	13.367	10.749	0.632
44         9.067         12.633         10.192         0.594           45         8.967         12.4         10.029         0.593           46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.605           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4 <td< td=""><td>42</td><td>9.333</td><td>13.067</td><td>10.545</td><td>0.621</td></td<>	42	9.333	13.067	10.545	0.621
45         8.967         12.4         10.029         0.593           46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.609           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.572           59         6.833         10.4         7.831         0.605           60         6.667         10.367	43	9.167	12.6	10.352	0.607
46         8.733         12.4         9.864         0.6           47         8.467         12.167         9.7         0.609           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.605           60         6.667         10.367         7.672         0.621           61         6.533         10         7.5	44	9.067	12.633	10.192	0.594
47         8.467         12.167         9.7         0.609           48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.572           59         6.833         10.4         7.831         0.605           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033 <td< td=""><td>45</td><td>8.967</td><td>12.4</td><td>10.029</td><td>0.593</td></td<>	45	8.967	12.4	10.029	0.593
48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.612           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.	46	8.733	12.4	9.864	0.6
48         8.3         12.067         9.519         0.621           49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.612           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.					
49         8.2         12.033         9.365         0.632           50         8.067         11.867         9.182         0.612           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.562           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.602           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117	47	8.467	12.167	9.7	0.609
50         8.067         11.867         9.182         0.615           51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.605           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997<	48	8.3	12.067	9.519	0.621
51         7.933         11.4         9.013         0.596           52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875 <td>49</td> <td>8.2</td> <td>12.033</td> <td>9.365</td> <td>0.632</td>	49	8.2	12.033	9.365	0.632
52         7.8         11.433         8.871         0.626           53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.53           67         5.767         9.367         6.772 <td>50</td> <td>8.067</td> <td>11.867</td> <td>9.182</td> <td>0.615</td>	50	8.067	11.867	9.182	0.615
53         7.633         11.033         8.689         0.581           54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645	51	7.933	11.4	9.013	0.596
54         7.433         11.133         8.522         0.58           55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.560           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518	52	7.8	11.433	8.871	0.626
55         7.3         10.933         8.385         0.591           56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43	53	7.633	11.033	8.689	0.581
56         7.167         10.5         8.257         0.562           57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43         0.581           71         5.567         8.733         6.319	54	7.433	11.133	8.522	0.58
57         7.033         10.567         8.119         0.563           58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.587           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43         0.581           71         5.567         8.733         6.319         0.566	55	7.3	10.933	8.385	0.591
58         6.867         10.4         7.981         0.573           59         6.833         10.4         7.831         0.609           60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43         0.581           71         5.567         8.733         6.319         0.566	56	7.167	10.5	8.257	0.562
59         6.833         10.4         7.831         0.609           60         6.6667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43         0.581           71         5.567         8.733         6.319         0.566	57	7.033	10.567	8.119	0.563
60         6.667         10.367         7.672         0.621           61         6.533         10         7.508         0.588           62         6.333         10.033         7.365         0.587           63         6.3         9.8         7.248         0.567           64         6.2         9.9         7.117         0.578           65         6.033         9.4         6.997         0.561           66         5.9         9.133         6.875         0.55           67         5.767         9.367         6.772         0.584           68         5.8         8.967         6.645         0.542           69         5.6         9.033         6.518         0.551           70         5.5         9.067         6.43         0.581           71         5.567         8.733         6.319         0.566	58	6.867	10.4	7.981	0.573
61       6.533       10       7.508       0.588         62       6.333       10.033       7.365       0.587         63       6.3       9.8       7.248       0.567         64       6.2       9.9       7.117       0.578         65       6.033       9.4       6.997       0.561         66       5.9       9.133       6.875       0.55         67       5.767       9.367       6.772       0.584         68       5.8       8.967       6.645       0.542         69       5.6       9.033       6.518       0.551         70       5.5       9.067       6.43       0.581         71       5.567       8.733       6.319       0.566	59	6.833	10.4	7.831	0.609
62       6.333       10.033       7.365       0.587         63       6.3       9.8       7.248       0.567         64       6.2       9.9       7.117       0.578         65       6.033       9.4       6.997       0.561         66       5.9       9.133       6.875       0.55         67       5.767       9.367       6.772       0.584         68       5.8       8.967       6.645       0.542         69       5.6       9.033       6.518       0.551         70       5.5       9.067       6.43       0.581         71       5.567       8.733       6.319       0.566	60	6.667	10.367	7.672	0.621
63       6.3       9.8       7.248       0.567         64       6.2       9.9       7.117       0.578         65       6.033       9.4       6.997       0.561         66       5.9       9.133       6.875       0.55         67       5.767       9.367       6.772       0.584         68       5.8       8.967       6.645       0.542         69       5.6       9.033       6.518       0.551         70       5.5       9.067       6.43       0.581         71       5.567       8.733       6.319       0.566	61	6.533	10	7.508	0.588
64     6.2     9.9     7.117     0.578       65     6.033     9.4     6.997     0.561       66     5.9     9.133     6.875     0.55       67     5.767     9.367     6.772     0.584       68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	62	6.333	10.033	7.365	0.587
65     6.033     9.4     6.997     0.561       66     5.9     9.133     6.875     0.55       67     5.767     9.367     6.772     0.584       68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	63	6.3	9.8	7.248	0.567
66     5.9     9.133     6.875     0.55       67     5.767     9.367     6.772     0.584       68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	64	6.2	9.9	7.117	0.578
67     5.767     9.367     6.772     0.584       68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	65	6.033	9.4	6.997	0.561
68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	66	5.9	9.133	6.875	0.55
68     5.8     8.967     6.645     0.542       69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	67	5.767	9.367	6.772	0.584
69     5.6     9.033     6.518     0.551       70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	68	5.8		6.645	0.542
70     5.5     9.067     6.43     0.581       71     5.567     8.733     6.319     0.566	69	5.6	9.033	6.518	0.551
71 5.567 8.733 6.319 0.566	70	5.5	9.067	6.43	0.581
	-				0.566
1 721 5.1071 5.0551 5.2011 5.557	72	5.467	8.633	6.201	0.554
					0.568
					0.549

75	5.1	8.467	5.879	0.567
76	4.967	8.167	5.779	0.557
77	4.833	7.967	5.661	0.525
78	4.7	7.967	5.566	0.552
79	4.633	7.9	5.465	0.556
80	4.667	7.567	5.343	0.523
81	4.633	7.533	5.252	0.542
82	4.567	7.6	5.151	0.555
83	4.5	7.533	5.042	0.525
84	4.367	7.433	4.958	0.539
85	4.233	7.633	4.879	0.548
86	4.2	7.233	4.801	0.482
87	4.1	7.1	4.757	0.476
88	4.067	7.167	4.726	0.507
89	3.967	6.9	4.669	0.499
90	3.9	6.967	4.616	0.511
91	3.867	6.633	4.521	0.486
92	3.767	6.833	4.46	0.529
93	3.667	6.633	4.364	0.516
94	3.567	6.767	4.285	0.537
95	3.6	6.767	4.207	0.522
96	3.467	6.767	4.141	0.555
97	3.467	6.367	4.052	0.536
98	3.3	6.333	3.974	0.541
99	3.2	6.333	3.881	0.501
100	3.133	6.367	3.828	0.535
101	3	6.233	3.748	0.521
102	2.867	6.133	3.682	0.527
103	2.8	6.033	3.61	0.539
104	2.767	5.633	3.504	0.516
105	2.733	5.6	3.41	0.523
106	2.733	5.7	3.318	0.531
107	2.567	5.567	3.23	0.544
108	2.467	5.367	3.112	0.503
109	2.467	5.233	3.028	0.489

111         2.4         5.367         2.924         0.523           112         2.367         5.2         2.868         0.495           113         2.333         4.967         2.799         0.458           114         2.267         5.233         2.772         0.494           115         2.233         4.9         2.716         0.457           116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.66         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.255         0.464           124         1.833         4.433         2.211         0.508           125         1.767         4.333					
112         2.367         5.2         2.868         0.495           113         2.333         4.967         2.799         0.458           114         2.267         5.233         2.772         0.494           115         2.233         4.9         2.716         0.457           116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.667         2.398         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3	110	2.5	5.233	2.974	0.514
113         2.333         4.967         2.799         0.458           114         2.267         5.233         2.772         0.494           115         2.233         4.9         2.716         0.457           116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.667         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.255         0.464           124         1.833         4.433         2.255         0.464           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233	111	2.4	5.367	2.924	0.523
114         2.267         5.233         2.772         0.494           115         2.233         4.9         2.716         0.457           116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.33         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2	112	2.367	5.2	2.868	0.495
115         2.233         4.9         2.716         0.457           116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1	113	2.333	4.967	2.799	0.458
116         2.133         4.967         2.69         0.479           117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233	114	2.267	5.233	2.772	0.494
117         2.1         4.767         2.651         0.481           118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93<	115	2.233	4.9	2.716	0.457
118         2.067         4.9         2.609         0.523           119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896	116	2.133	4.967	2.69	0.479
119         2         4.833         2.552         0.542           120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.819	117	2.1	4.767	2.651	0.481
120         1.9         5.033         2.489         0.547           121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.819         0.492           135         1.333         4.233         1	118	2.067	4.9	2.609	0.523
121         1.867         4.667         2.398         0.501           122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.864         0.519           136         1.367         3.967 <td< td=""><td>119</td><td>2</td><td>4.833</td><td>2.552</td><td>0.542</td></td<>	119	2	4.833	2.552	0.542
122         1.867         4.6         2.338         0.507           123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1	120	1.9	5.033	2.489	0.547
123         1.833         4.433         2.255         0.464           124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.819         0.492           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233 <td< td=""><td>121</td><td>1.867</td><td>4.667</td><td>2.398</td><td>0.501</td></td<>	121	1.867	4.667	2.398	0.501
124         1.833         4.433         2.221         0.508           125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133 <td< td=""><td>122</td><td>1.867</td><td>4.6</td><td>2.338</td><td>0.507</td></td<>	122	1.867	4.6	2.338	0.507
125         1.767         4.333         2.171         0.493           126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1	123	1.833	4.433	2.255	0.464
126         1.7         4.3         2.13         0.482           127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1	124	1.833	4.433	2.221	0.508
127         1.633         4.233         2.09         0.474           128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833	125	1.767	4.333	2.171	0.493
128         1.6         4.133         2.063         0.48           129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833         1.502         0.528           143         1         3.933         1.4	126	1.7	4.3	2.13	0.482
129         1.567         4.267         2.019         0.47           130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833         1.502         0.528           143         1         3.933         1.445         0.503	127	1.633	4.233	2.09	0.474
130         1.533         4.067         1.984         0.44           131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833         1.502         0.528           143         1         3.933         1.445         0.503	128	1.6	4.133	2.063	0.48
131         1.567         4.233         1.959         0.464           132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833         1.502         0.528           143         1         3.933         1.445         0.503	129	1.567	4.267	2.019	0.47
132         1.5         4         1.93         0.46           133         1.467         4.167         1.896         0.488           134         1.3         4.233         1.864         0.519           135         1.333         4.233         1.819         0.492           136         1.367         3.967         1.772         0.478           137         1.3         3.967         1.736         0.496           138         1.233         4.233         1.695         0.536           139         1.133         4.133         1.633         0.506           140         1.2         3.633         1.571         0.469           141         1.067         3.933         1.541         0.513           142         1         3.833         1.502         0.528           143         1         3.933         1.445         0.503	130	1.533	4.067	1.984	0.44
133       1.467       4.167       1.896       0.488         134       1.3       4.233       1.864       0.519         135       1.333       4.233       1.819       0.492         136       1.367       3.967       1.772       0.478         137       1.3       3.967       1.736       0.496         138       1.233       4.233       1.695       0.536         139       1.133       4.133       1.633       0.506         140       1.2       3.633       1.571       0.469         141       1.067       3.933       1.541       0.513         142       1       3.833       1.502       0.528         143       1       3.933       1.445       0.503	131	1.567	4.233	1.959	0.464
134       1.3       4.233       1.864       0.519         135       1.333       4.233       1.819       0.492         136       1.367       3.967       1.772       0.478         137       1.3       3.967       1.736       0.496         138       1.233       4.233       1.695       0.536         139       1.133       4.133       1.633       0.506         140       1.2       3.633       1.571       0.469         141       1.067       3.933       1.541       0.513         142       1       3.833       1.502       0.528         143       1       3.933       1.445       0.503	132	1.5	4	1.93	0.46
135     1.333     4.233     1.819     0.492       136     1.367     3.967     1.772     0.478       137     1.3     3.967     1.736     0.496       138     1.233     4.233     1.695     0.536       139     1.133     4.133     1.633     0.506       140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	133	1.467	4.167	1.896	0.488
136     1.367     3.967     1.772     0.478       137     1.3     3.967     1.736     0.496       138     1.233     4.233     1.695     0.536       139     1.133     4.133     1.633     0.506       140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	134	1.3	4.233	1.864	0.519
137     1.3     3.967     1.736     0.496       138     1.233     4.233     1.695     0.536       139     1.133     4.133     1.633     0.506       140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	135	1.333	4.233	1.819	0.492
138     1.233     4.233     1.695     0.536       139     1.133     4.133     1.633     0.506       140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	136	1.367	3.967	1.772	0.478
139     1.133     4.133     1.633     0.506       140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	137	1.3	3.967	1.736	0.496
140     1.2     3.633     1.571     0.469       141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	138	1.233	4.233	1.695	0.536
141     1.067     3.933     1.541     0.513       142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	139	1.133	4.133	1.633	0.506
142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503	140	1.2	3.633	1.571	0.469
142     1     3.833     1.502     0.528       143     1     3.933     1.445     0.503					
143 1 3.933 1.445 0.503	141	1.067	3.933	1.541	0.513
	142	1	3.833		0.528
144     0.967     3.7     1.384     0.474	143			1.445	0.503
	144	0.967	3.7	1.384	0.474

145	0.967	3.633	1.375	0.513
146	0.933	3.7	1.318	0.491
147	0.9	3.5	1.287	0.504
148	0.867	3.467	1.22	0.446
149	0.9	3.267	1.215	0.46
150	0.9	3.367	1.188	0.471
151	0.867	3.367	1.155	0.473
152	0.867	3.367	1.119	0.474
153	0.9	3.433	1.086	0.475
154	0.9	3.3	1.055	0.47
155	0.867	3.167	1.027	0.43
156	0.833	3.167	1.031	0.445
157	0.767	3.233	1.023	0.439
158	0.767	3.333	1.02	0.456
159	0.733	3.033	1.009	0.445
160	0.733	3.3	1.013	0.491
161	0.667	3.2	0.982	0.474
162	0.633	3.1	0.952	0.474
163	0.633	3.133	0.931	0.486
164	0.6	3.033	0.888	0.468
165	0.567	2.967	0.868	0.466
166	0.5	3.133	0.839	0.475
167	0.467	3.2	0.818	0.483
168	0.467	3.167	0.773	0.481
169	0.467	2.9	0.75	0.481
170	0.467	2.867	0.703	0.466
171	0.467	3.133	0.686	0.49
172	0.467	2.833	0.656	0.472
173	0.467	2.667	0.63	0.465
174	0.433	2.9	0.603	0.443
175	0.433	2.833	0.598	0.442
176	0.433	2.633	0.597	0.437
177	0.367	2.767	0.59	0.44
178	0.367	2.867	0.601	0.459
179	0.367	2.8	0.598	0.472
180	0.367	2.833	0.597	0.476

181	0.367	2.567	0.569	0.434
182	0.367	2.933	0.577	0.483
183	0.367	2.833	0.56	0.474
184	0.367	2.667	0.542	0.461
185	0.367	2.867	0.537	0.505
186	0.367	2.633	0.521	0.47
187	0.367	2.733	0.517	0.485
188	0.367	2.9	0.502	0.465
189	0.367	2.733	0.502	0.459
190	0.333	2.833	0.51	0.47
191	0.367	2.733	0.508	0.464
192	0.367	2.767	0.501	0.456
193	0.367	2.7	0.483	0.416
194	0.367	2.6	0.501	0.448
195	0.333	2.7	0.513	0.47
196	0.333	2.767	0.509	0.465
197	0.333	2.6	0.494	0.437
198	0.333	2.8	0.507	0.466
199	0.333	2.733	0.518	0.482
200	0.333	2.7	0.514	0.485
201	0.3	2.733	0.49	0.462
202	0.3	2.433	0.488	0.45
203	0.3	2.567	0.481	0.449
204	0.3	2.633	0.468	0.449
205	0.3	2.567	0.47	0.458
206	0.3	2.6	0.466	0.451
207	0.3	2.767	0.462	0.45
208	0.3	2.767	0.455	0.469
209	0.267	2.667	0.459	0.472
210	0.267	2.567	0.44	0.445
211	0.233	2.367	0.427	0.428
212	0.233	2.6	0.412	0.427
213	0.233	2.8	0.428	0.449
214	0.233	2.6	0.426	0.458
215	0.2	2.5	0.413	0.439

216	0.2	2.6	0.417	0.477
217	0.2	2.533	0.38	0.447
218	0.2	2.667	0.372	0.468
219	0.2	2.433	0.352	0.434
220	0.2	2.533	0.355	0.461
221	0.167	2.7	0.347	0.472
222	0.167	2.4	0.349	0.466
223	0.167	2.633	0.339	0.464
224	0.167	2.5	0.331	0.454
225	0.167	2.467	0.314	0.427
226	0.167	2.633	0.319	0.457
227	0.167	2.533	0.312	0.458
228	0.167	2.567	0.308	0.463
229	0.167	2.567	0.308	0.468
230	0.167	2.4	0.294	0.428
231	0.133	2.433	0.303	0.449
232	0.133	2.433	0.305	0.458
233	0.133	2.4	0.295	0.437
234	0.1	2.333	0.301	0.442
235	0.1	2.2	0.299	0.45
236	0.1	2.5	0.299	0.477
237	0.1	2.367	0.275	0.434
238	0.1	2.467	0.281	0.464
239	0.1	2.5	0.276	0.47
240	0.1	2.433	0.265	0.449
241	0.1	2.3	0.265	0.452
242	0.1	2.4	0.252	0.445
243	0.1	2.367	0.245	0.446
244	0.1	2.367	0.234	0.421
245	0.1	2.333	0.25	0.465
246	0.1	2.267	0.241	0.448
247	0.1	2.367	0.234	0.45
248	0.1	2.533	0.237	0.456
249	0.1	2.6	0.249	0.48
250	0.067	2.5	0.231	0.449

252         0.1         2.533         0.231         0.45           253         0.1         2.533         0.245         0.473           254         0.1         2.367         0.238         0.456           255         0.1         2.5         0.237         0.457           256         0.1         2.533         0.262         0.496           257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.23         0.43           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.452           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.24         0.					
253         0.1         2.533         0.245         0.473           254         0.1         2.367         0.238         0.456           255         0.1         2.5         0.237         0.457           256         0.1         2.533         0.262         0.496           257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.23         0.443           261         0.1         2.367         0.23         0.443           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.243         0.451           264         0.1         2.433         0.246         0.461           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.337         0.244         <	251	0.067	2.3	0.239	0.456
254         0.1         2.367         0.238         0.456           255         0.1         2.5         0.237         0.457           256         0.1         2.533         0.262         0.496           257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.337         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.433         0.224	252	0.1	2.533	0.231	0.45
255         0.1         2.5         0.237         0.457           256         0.1         2.533         0.262         0.496           257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223	253	0.1	2.533	0.245	0.473
256         0.1         2.533         0.262         0.496           257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.224         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221	254	0.1	2.367	0.238	0.456
257         0.1         2.367         0.229         0.436           258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.224	255	0.1	2.5	0.237	0.457
258         0.1         2.4         0.225         0.433           259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.42           272         0         2.433         0.221         0.447           273         0         2.233         0.224	256	0.1	2.533	0.262	0.496
259         0.1         2.267         0.231         0.428           260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224	257	0.1	2.367	0.229	0.436
260         0.1         2.367         0.23         0.443           261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207	258	0.1	2.4	0.225	0.433
261         0.1         2.367         0.243         0.457           262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.447           273         0         2.233         0.224         0.447           275         0         2.367         0.224         0.471           275         0         2.267         0.207	259	0.1	2.267	0.231	0.428
262         0.1         2.2         0.219         0.415           263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.447           273         0         2.233         0.224         0.447           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.468           277         0         2.5         0.211	260	0.1	2.367	0.23	0.443
263         0.1         2.3         0.246         0.461           264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.267         0.207         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187	261	0.1	2.367	0.243	0.457
264         0.1         2.433         0.235         0.451           265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481	262	0.1	2.2	0.219	0.415
265         0.1         2.6         0.231         0.457           266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452 <td>263</td> <td>0.1</td> <td>2.3</td> <td>0.246</td> <td>0.461</td>	263	0.1	2.3	0.246	0.461
266         0.1         2.367         0.25         0.462           267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441 <td>264</td> <td>0.1</td> <td>2.433</td> <td>0.235</td> <td>0.451</td>	264	0.1	2.433	0.235	0.451
267         0.067         2.367         0.24         0.454           268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.333         0.139         0.441           282         0         2.333         0.141         0.45	265	0.1	2.6	0.231	0.457
268         0.067         2.233         0.228         0.437           269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.333         0.138         0.455           282         0         2.333         0.141         0.45           284         0         2.433         0.146         0.471	266	0.1	2.367	0.25	0.462
269         0.067         2.733         0.244         0.483           270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.333         0.138         0.455           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471 <td>267</td> <td>0.067</td> <td>2.367</td> <td>0.24</td> <td>0.454</td>	267	0.067	2.367	0.24	0.454
270         0.067         2.433         0.223         0.43           271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471	268	0.067	2.233	0.228	0.437
271         0.033         2.2         0.221         0.423           272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471	269	0.067	2.733	0.244	0.483
272         0         2.433         0.221         0.447           273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471	270	0.067	2.433	0.223	0.43
273         0         2.233         0.224         0.446           274         0         2.367         0.224         0.471           275         0         2.267         0.207         0.461           276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471	271	0.033	2.2	0.221	0.423
274       0       2.367       0.224       0.471         275       0       2.267       0.207       0.461         276       0       2.2       0.209       0.468         277       0       2.5       0.211       0.511         278       0       2.367       0.187       0.489         279       0       2.5       0.16       0.481         280       0       2.3       0.148       0.452         281       0       2.033       0.139       0.441         282       0       2.233       0.141       0.455         283       0       2.233       0.141       0.455         284       0       2.433       0.146       0.471	272	0	2.433	0.221	0.447
275     0     2.267     0.207     0.461       276     0     2.2     0.209     0.468       277     0     2.5     0.211     0.511       278     0     2.367     0.187     0.489       279     0     2.5     0.16     0.481       280     0     2.3     0.148     0.452       281     0     2.033     0.139     0.441       282     0     2.233     0.141     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	273	0	2.233	0.224	0.446
276         0         2.2         0.209         0.468           277         0         2.5         0.211         0.511           278         0         2.367         0.187         0.489           279         0         2.5         0.16         0.481           280         0         2.3         0.148         0.452           281         0         2.033         0.139         0.441           282         0         2.333         0.138         0.455           283         0         2.233         0.141         0.45           284         0         2.433         0.146         0.471	274	0	2.367	0.224	0.471
277     0     2.5     0.211     0.511       278     0     2.367     0.187     0.489       279     0     2.5     0.16     0.481       280     0     2.3     0.148     0.452       281     0     2.033     0.139     0.441       282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	275	0	2.267	0.207	0.461
278     0     2.367     0.187     0.489       279     0     2.5     0.16     0.481       280     0     2.3     0.148     0.452       281     0     2.033     0.139     0.441       282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	276	0	2.2	0.209	0.468
279     0     2.5     0.16     0.481       280     0     2.3     0.148     0.452       281     0     2.033     0.139     0.441       282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	277	0	2.5	0.211	0.511
280     0     2.3     0.148     0.452       281     0     2.033     0.139     0.441       282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	278	0	2.367	0.187	0.489
281     0     2.033     0.139     0.441       282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	279	0	2.5	0.16	0.481
282     0     2.333     0.138     0.455       283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	280	0	2.3	0.148	0.452
283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471	281	0	2.033	0.139	0.441
283     0     2.233     0.141     0.45       284     0     2.433     0.146     0.471					
284 0 2.433 0.146 0.471	282	0	2.333	0.138	0.455
	283	0	2.233	0.141	0.45
285 0 2.267 0.137 0.442	284	0	2.433	0.146	
	285	0	2.267	0.137	0.442

286	0	2.233	0.137	0.451
287	0	2.367	0.143	0.465
288	0	2.5	0.118	0.427
289	0	2.233	0.119	0.409
290	0	2.233	0.137	0.453
291	0	2.333	0.141	0.462
292	0	2.233	0.137	0.448
293	0	2.333	0.123	0.431
294	0	2.4	0.137	0.457
295	0	2.567	0.141	0.466
296	0	2.267	0.137	0.457
297	0	2.267	0.135	0.449
298	0	2.467	0.137	0.454
299	0	2.467	0.144	0.469
300	0	2.1	0.125	0.427
301	0	2.2	0.156	0.481
302	0	2.3	0.159	0.484
303	0	2.367	0.135	0.459
304	0	2.3	0.134	0.453
305	0	2.267	0.131	0.445
306	0	2.433	0.152	0.471
307	0	2.5	0.141	0.467
308	0	2.1	0.136	0.441
309	0	2.4	0.142	0.471
310	0	2.3	0.141	0.46
311	0	2.333	0.147	0.469
312	0	2.2	0.135	0.445
313	0	2.3	0.131	0.436
314	0	2.3	0.133	0.442
315	0	2.4	0.132	0.444
316	0	2.3	0.136	0.453
317	0	2.067	0.117	0.413
318	0	2.333	0.14	0.465
319	0	2.2	0.139	0.446
320	0	2.2	0.148	0.464
321	0	2.1	0.137	0.443

322         0         2.267         0.139         0.45           323         0         2.3         0.122         0.425           324         0         2.233         0.142         0.456           325         0         2.433         0.133         0.455           326         0         2.267         0.122         0.429           327         0         2.2         0.143         0.463           328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.267         0.134         0.451           337         0         2.233         0.139         0.449      <					
324         0         2.233         0.142         0.456           325         0         2.433         0.133         0.455           326         0         2.267         0.122         0.429           327         0         2.2         0.143         0.463           328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.447           331         0         2.267         0.131         0.447           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.139         0.467           336         0         2.267         0.129         0.435           336         0         2.267         0.129         0.435           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461	322	0	2.267	0.139	0.45
325         0         2.433         0.133         0.455           326         0         2.267         0.122         0.429           327         0         2.2         0.143         0.463           328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.447           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.267         0.129         0.435           337         0         2.23         0.134         0.451           338         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452      <	323	0	2.3	0.122	0.425
326         0         2.267         0.122         0.429           327         0         2.2         0.143         0.463           328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.267         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.233         0.139         0.449           338         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452      <	324	0	2.233	0.142	0.456
327         0         2.2         0.143         0.463           328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.139         0.449           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.452           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456	325	0	2.433	0.133	0.455
328         0         2.433         0.135         0.458           329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419	326	0	2.267	0.122	0.429
329         0         2.133         0.134         0.446           330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.45           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462	327	0	2.2	0.143	0.463
330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471	328	0	2.433	0.135	0.458
330         0         2.267         0.131         0.441           331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471					
331         0         2.367         0.123         0.427           332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.33         0.143         0.462           345         0         2.333         0.147         0.471	329	0	2.133	0.134	0.446
332         0         2.3         0.132         0.447           333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.43           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.33         0.147         0.471           346         0         2.3         0.136         0.452	330	0	2.267	0.131	0.441
333         0         2.4         0.139         0.467           334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.132         0.445	331	0	2.367	0.123	0.427
334         0         2.367         0.134         0.451           335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.445           347         0         2.133         0.132         0.445           348         0         2.167         0.136         0.444	332	0	2.3	0.132	0.447
335         0         2.267         0.129         0.435           336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.132         0.445           348         0         2.167         0.136         0.444           349         0         2.2         0.125         0.141         0.472 <td>333</td> <td>0</td> <td>2.4</td> <td>0.139</td> <td>0.467</td>	333	0	2.4	0.139	0.467
336         0         2.2         0.129         0.43           337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.136         0.445           348         0         2.167         0.136         0.444           349         0         2.2         0.125         0.427           350         0         2.5         0.141         0.472           351         0         2.533         0.147         0.482	334	0	2.367	0.134	0.451
337         0         2.233         0.139         0.449           338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.132         0.445           348         0         2.167         0.136         0.444           349         0         2.2         0.125         0.427           350         0         2.5         0.141         0.472           351         0         2.533         0.147         0.482           352         0         2.333         0.158         0.492	335	0	2.267	0.129	0.435
338         0         2.333         0.136         0.461           339         0         2.3         0.135         0.452           340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.132         0.445           348         0         2.167         0.136         0.444           349         0         2.2         0.125         0.427           350         0         2.5         0.141         0.472           351         0         2.533         0.147         0.482           352         0         2.333         0.158         0.492           353         0         2.633         0.156         0.502	336	0	2.2	0.129	0.43
339       0       2.3       0.135       0.452         340       0       2.167       0.13       0.436         341       0       2.267       0.136       0.45         342       0       2.4       0.135       0.456         343       0       2.1       0.125       0.419         344       0       2.333       0.143       0.462         345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.444	337	0	2.233	0.139	0.449
340         0         2.167         0.13         0.436           341         0         2.267         0.136         0.45           342         0         2.4         0.135         0.456           343         0         2.1         0.125         0.419           344         0         2.333         0.143         0.462           345         0         2.333         0.147         0.471           346         0         2.3         0.136         0.452           347         0         2.133         0.132         0.445           348         0         2.167         0.136         0.444           349         0         2.2         0.125         0.427           350         0         2.5         0.141         0.472           351         0         2.533         0.147         0.482           352         0         2.333         0.158         0.492           353         0         2.633         0.156         0.502           354         0         2.433         0.142         0.459           355         0         2.333         0.131         0.444	338	0	2.333	0.136	0.461
341       0       2.267       0.136       0.45         342       0       2.4       0.135       0.456         343       0       2.1       0.125       0.419         344       0       2.333       0.143       0.462         345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.444	339	0	2.3	0.135	0.452
342       0       2.4       0.135       0.456         343       0       2.1       0.125       0.419         344       0       2.333       0.143       0.462         345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.444	340	0	2.167	0.13	0.436
343       0       2.1       0.125       0.419         344       0       2.333       0.143       0.462         345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.444	341	0	2.267	0.136	0.45
344       0       2.333       0.143       0.462         345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.44	342	0	2.4	0.135	0.456
345       0       2.333       0.147       0.471         346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.444	343	0	2.1	0.125	0.419
346       0       2.3       0.136       0.452         347       0       2.133       0.132       0.445         348       0       2.167       0.136       0.444         349       0       2.2       0.125       0.427         350       0       2.5       0.141       0.472         351       0       2.533       0.147       0.482         352       0       2.333       0.158       0.492         353       0       2.633       0.156       0.502         354       0       2.433       0.142       0.459         355       0       2.333       0.131       0.44	344	0	2.333	0.143	0.462
347     0     2.133     0.132     0.445       348     0     2.167     0.136     0.444       349     0     2.2     0.125     0.427       350     0     2.5     0.141     0.472       351     0     2.533     0.147     0.482       352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	345	0	2.333	0.147	0.471
348     0     2.167     0.136     0.444       349     0     2.2     0.125     0.427       350     0     2.5     0.141     0.472       351     0     2.533     0.147     0.482       352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.444	346	0	2.3	0.136	0.452
349     0     2.2     0.125     0.427       350     0     2.5     0.141     0.472       351     0     2.533     0.147     0.482       352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	347	0	2.133	0.132	0.445
350     0     2.5     0.141     0.472       351     0     2.533     0.147     0.482       352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	348	0	2.167	0.136	0.444
351     0     2.533     0.147     0.482       352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	349	0	2.2	0.125	0.427
352     0     2.333     0.158     0.492       353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	350	0	2.5	0.141	0.472
353     0     2.633     0.156     0.502       354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	351	0	2.533	0.147	0.482
354     0     2.433     0.142     0.459       355     0     2.333     0.131     0.44	352	0	2.333	0.158	0.492
355 0 2.333 0.131 0.44	353	0	2.633	0.156	0.502
	354	0	2.433	0.142	0.459
	355	0	2.333	0.131	0.44
356 0 2.1 0.136 0.438	356	0	2.1	0.136	0.438

357	0	2.3	0.13	0.427
358	0	2.267	0.135	0.441
359	0	2.367	0.147	0.476
360	0	2.3	0.136	0.452
361	0	2.167	0.142	0.455
362	0	2.367	0.133	0.452
363	0	2.333	0.142	0.464
364	0	2.4	0.138	0.455
365	0	2.3	0.136	0.449
366	0	2.1	0.135	0.448
367	0	2.267	0.14	0.458
368	0	2.567	0.137	0.459
369	0	2.333	0.141	0.466
370	0	2.167	0.146	0.463
371	0	2.433	0.142	0.467
372	0	2.4	0.14	0.458
373	0	2.433	0.132	0.449
374	0	2.233	0.131	0.441
375	0	2.267	0.132	0.442
376	0	2.233	0.136	0.449
377	0	2.5	0.135	0.466
378	0	2.167	0.143	0.454
379	0	2.467	0.126	0.443
380	0	2.333	0.134	0.458
381	0	2.167	0.132	0.433
382	0	2.167	0.139	0.456
383	0	2.3	0.12	0.417
384	0	2.1	0.138	0.442
385	0	2.433	0.138	0.463
386	0	2.3	0.132	0.451
387	0	2.167	0.122	0.412
388	0	2.267	0.136	0.455
389	0	2.067	0.133	0.444
390	0	2.167	0.121	0.428
391	0	2.367	0.141	0.468
-				

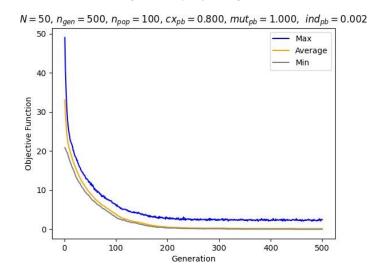
393       0       2.4       0.136         394       0       2.333       0.132         395       0       2.267       0.139         396       0       2.333       0.123         397       0       2.367       0.143         398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.438 0.46 0.46 0.431 0.473 0.423 0.439 0.446 0.453 0.473 0.455 0.471
394       0       2.333       0.132         395       0       2.267       0.139         396       0       2.333       0.123         397       0       2.367       0.143         398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.446 0.46 0.431 0.473 0.423 0.439 0.446 0.453 0.473 0.473
395       0       2.267       0.139         396       0       2.333       0.123         397       0       2.367       0.143         398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.46 0.431 0.473 0.423 0.439 0.446 0.453 0.473 0.455
396       0       2.333       0.123         397       0       2.367       0.143         398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.367       0.134         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.431 0.473 0.423 0.439 0.446 0.453 0.473
397       0       2.367       0.143         398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.473 0.423 0.439 0.446 0.453 0.473
398       0       2.133       0.131         399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.423 0.439 0.446 0.453 0.473
399       0       2.233       0.133         400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.439 0.446 0.453 0.473 0.455
400       0       2.333       0.136         401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.446 0.453 0.473 0.455
401       0       2.367       0.134         402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.453
402       0       2.433       0.146         403       0       2.367       0.134         404       0       2.467       0.143         405       0       2.333       0.129         406       0       2.6       0.141         407       0       2.233       0.134         408       0       2.467       0.138         409       0       2.333       0.141	0.473
403     0     2.367     0.134       404     0     2.467     0.143       405     0     2.333     0.129       406     0     2.6     0.141       407     0     2.233     0.134       408     0     2.467     0.138       409     0     2.333     0.141	).455
404     0     2.467     0.143       405     0     2.333     0.129       406     0     2.6     0.141       407     0     2.233     0.134       408     0     2.467     0.138       409     0     2.333     0.141	
405     0     2.333     0.129       406     0     2.6     0.141       407     0     2.233     0.134       408     0     2.467     0.138       409     0     2.333     0.141	).471
406     0     2.6     0.141       407     0     2.233     0.134       408     0     2.467     0.138       409     0     2.333     0.141	
407     0     2.233     0.134       408     0     2.467     0.138       409     0     2.333     0.141	).445
408     0     2.467     0.138       409     0     2.333     0.141	0.478
409 0 2.333 0.141	0.45
	0.462
	0.461
410 0 2.567 0.145	0.478
411 0 2.333 0.145	).459
412 0 2.267 0.143	0.453
413 0 2.4 0.142	0.473
414 0 2.333 0.151	0.483
415 0 2.3 0.142	0.456
416 0 2.433 0.132	).449
417 0 2.3 0.125	0.437
418 0 2.433 0.139	0.462
419 0 2.1 0.122	0.426
420 0 2.2 0.133	0.44
421 0 2.4 0.144	0.476
422 0 2.2 0.132	0.437
423 0 2.067 0.13	0.425
424 0 2.3 0.149	0.466
425 0 2.433 0.147	0.464
426 0 2.433 0.127	

427	0	2.467	0.139	0.462
428	0	2.433	0.142	0.466
429	0	2.267	0.142	0.464
430	0	2.5	0.138	0.463
431	0	2.3	0.123	0.436
432	0	2.667	0.146	0.476
433	0	2.3	0.136	0.451
434	0	2.2	0.134	0.439
435	0	2.267	0.14	0.456
436	0	2.233	0.137	0.448
437	0	2.267	0.126	0.427
438	0	2.133	0.13	0.431
439	0	2.133	0.141	0.454
440	0	2.233	0.134	0.45
441	0	2.2	0.123	0.424
442	0	2.133	0.132	0.427
443	0	2.233	0.137	0.454
444	0	2.233	0.124	0.427
445	0	2.233	0.135	0.449
446	0	2.2	0.139	0.448
447	0	2.3	0.142	0.468
448	0	2.133	0.134	0.442
449	0	2.2	0.134	0.439
450	0	2.333	0.13	0.446
451	0	2.4	0.15	0.478
452	0	2.3	0.133	0.44
453	0	2.267	0.122	0.426
454	0	2.033	0.122	0.418
455	0	2.3	0.126	0.436
456	0	2.3	0.129	0.445
457	0	2.367	0.134	0.455
458	0	2.2	0.121	0.427
459	0	2.533	0.129	0.444
460	0	2.2	0.134	0.44
461	0	2.4	0.167	0.508
462	0	2.167	0.127	0.427

463	0	2.333	0.137	0.449
464	0	2.333	0.135	0.456
465	0	2.633	0.146	0.488
466	0	2.333	0.15	0.481
467	0	2.367	0.143	0.464
468	0	2.2	0.138	0.451
469	0	2.4	0.127	0.437
470	0	2.1	0.14	0.441
471	0	2.333	0.143	0.458
472	0	2.4	0.149	0.475
473	0	2.3	0.134	0.445
474	0	2.5	0.145	0.472
475	0	2.4	0.15	0.483
476	0	2.2	0.139	0.451
477	0	2.467	0.142	0.47
478	0	2.4	0.138	0.458
479	0	2.233	0.133	0.441
480	0	2.4	0.129	0.448
481	0	2.3	0.131	0.45
482	0	2.333	0.136	0.454
483	0	2.433	0.153	0.492
484	0	2.367	0.133	0.445
485	0	2.4	0.135	0.453
486	0	2.3	0.136	0.452
487	0	2.233	0.137	0.452
488	0	2.4	0.152	0.488
489	0	2.3	0.137	0.455
490	0	2.4	0.126	0.442
491	0	2.2	0.137	0.455
492	0	2.433	0.136	0.462
493	0	2.333	0.134	0.451
494	0	2.4	0.123	0.433
495	0	2.233	0.131	0.443
496	0	2.333	0.129	0.442
497	0	2.233	0.124	0.437

498	0	2.267	0.135	0.451
499	0	2.333	0.134	0.456
500	0	2.267	0.149	0.473

Figure 4:Graph of setting 4



Setting 5: N = 50,  $n_{gen} = 500$ , pop = 100, expb = 0.5, mutpb = 0.2, indpb = 0.02

## **Table of Setting 5**

Generation	Minimum Fitness	Maximum Fitness	Average Fitness	Standard deviation
1	20.433	50.033	33.24	5.842
2	20.233	41.533	29.924	4.457
3	19.967	37.033	27.533	3.605
4	19.533	33.433	25.628	2.881
5	19.4	30.267	24.185	2.373
6	19	28.5	23.054	2.047
7	18.5	27.3	22.128	1.727
8	17.733	26.433	21.341	1.593
9	17.433	25.4	20.657	1.428
10	16.733	24.9	20.089	1.35
11	16.533	23.667	19.545	1.267
12	16.1	23.133	19.023	1.228
13	15.733	22.633	18.56	1.175
14	15.567	22.333	18.145	1.155
15	15.067	21.7	17.726	1.119
16	14.433	21.133	17.314	1.135
17	14.167	21.1	16.864	1.143

18	13.833	20.767	16.445	1.139
19	13.5	20.167	16.014	1.116
20	13.233	19.333	15.591	1.063
21	12.9	19.4	15.229	1.109
22	12.667	18.9	14.804	1.086
23	12.3	18.433	14.419	1.065
24	11.933	18.667	14.05	1.073
25	11.733	17.567	13.67	0.982
26	11.467	17.233	13.337	0.968
27	11.133	16.8	13.007	0.93
28	10.967	16.4	12.749	0.909
29	10.5	16.267	12.467	0.911
30	10.3	16	12.183	0.918
31	10.133	15.8	11.919	0.918
32	9.9	16.2	11.67	0.953
33	9.833	15.767	11.424	0.955
34	9.633	15.433	11.158	0.928
35	9.5	15.033	10.882	0.877
36	9.3	14.4	10.665	0.831
37	9.1	14.167	10.458	0.834
38	8.933	14.333	10.254	0.875
39	8.8	13.633	10.065	0.827
40	8.7	13.9	9.885	0.847
41	8.567	13.167	9.689	0.746
42	8.433	12.567	9.523	0.705
43	8.267	13.567	9.416	0.822
44	8.1	13.4	9.272	0.803
45	7.967	12.733	9.139	0.773
46	7.633	12.6	9.009	0.808
47	7.533	12.567	8.816	0.796
48	7.433	12.667	8.645	0.781
49	7.433	12.533	8.507	0.808
50	7.1	12.9	8.372	0.855
51	7.033	12.4	8.239	0.852
52	6.967	12.1	8.089	0.819

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53	6.833	12.067	7.964	0.859
54	6.733	12.267	7.826	0.874
55	6.667	11.767	7.645	0.811
56	6.467	11.467	7.512	0.773
57	6.333	11.2	7.393	0.79
58	6.3	11.6	7.295	0.811
59	6.1	11.2	7.176	0.827
60	5.9	10.9	7.05	0.811
61	5.833	11.2	6.932	0.845
62	5.667	10.8	6.791	0.813
63	5.533	10.433	6.661	0.776
64	5.5	10.733	6.585	0.862
65	5.4	10.533	6.459	0.822
66	5.3	10.333	6.34	0.79
67	5.267	10.3	6.251	0.804
68	5.133	10.2	6.139	0.803
69	5.067	10.533	6.037	0.839
70	5	9.833	5.885	0.815
71	4.833	9.5	5.762	0.771
72	4.7	9.867	5.671	0.813
73	4.633	9.3	5.576	0.758
74	4.467	9.667	5.496	0.807
75	4.433	9.467	5.441	0.806
76	4.4	9.433	5.347	0.822
77	4.3	8.933	5.243	0.805
78	4.267	9.333	5.179	0.861
79	4.133	8.867	5.036	0.798
80	4.1	9.067	4.931	0.805
81	4.067	8.7	4.855	0.807
82	3.867	8.867	4.773	0.798
83	3.8	8.7	4.665	0.77
84	3.733	8.433	4.593	0.759
85	3.667	9.1	4.56	0.854
86	3.6	8.833	4.485	0.823
87	3.533	8.4	4.416	0.821
88	3.5	8.567	4.317	0.816

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89	3.467	8.333	4.23	0.794
90	3.367	8.233	4.177	0.837
91	3.333	8.3	4.09	0.84
92	3.3	8.133	3.987	0.823
93	3.267	7.933	3.889	0.775
	2.25			2 = -
94	3.267	7.933	3.798	0.756
95	3.133	7.567	3.754	0.79
96	2.967	7.633	3.667	0.747
97	2.9	7.767	3.636	0.79
98	2.9	7.8	3.591	0.787
99	2.9	8.067	3.545	0.79
100	2.833	7.5	3.522	0.778
101	2.8	7.533	3.468	0.774
102	2.767	7.567	3.436	0.802
103	2.7	7.767	3.379	0.841
104	2.733	7.467	3.283	0.804
105	2.567	7.467	3.227	0.812
106	2.433	7.067	3.15	0.775
107	2.433	7.033	3.095	0.775
108	2.3	7.267	3.054	0.823
109	2.3	7.267	2.995	0.822
110	2.233	7.267	2.935	0.82
111	2.267	6.967	2.871	0.816
112	2.233	6.8	2.801	0.81
113	2.2	7.067	2.758	0.863
114	2.133	6.933	2.655	0.778
115	2.033	7.367	2.64	0.859
116	2.033	6.533	2.586	0.792
117	2.033	6.667	2.519	0.745
118	1.967	7.4	2.505	0.82
119	1.8	6.533	2.459	0.735
120	1.767	6.7	2.436	0.796
121	1.7	6.6	2.411	0.797
122	1.633	6.533	2.371	0.823
123	1.633	6.9	2.325	0.851

124	1.667	6.567	2.247	0.822
125	1.6	6.333	2.179	0.8
126	1.5	6.4	2.12	0.825
127	1.467	5.967	2.028	0.752
128	1.4	6.5	2.025	0.85
129	1.4	6.233	1.992	0.836
130	1.367	5.767	1.94	0.784
131	1.4	5.7	1.891	0.766
132	1.4	5.867	1.838	0.767
133	1.4	5.833	1.805	0.774
134	1.4	6.033	1.778	0.781
135	1.333	5.567	1.74	0.738
136	1.3	5.833	1.734	0.769
137	1.233	5.833	1.716	0.778
138	1.267	5.967	1.722	0.825
139	1.267	5.933	1.71	0.811
140	1.267	5.767	1.661	0.781
141	1.2	5.767	1.643	0.79
142	1.133	5.7	1.583	0.759
143	1.133	5.733	1.578	0.782
144	1.133	5.767	1.598	0.843
145	1.133	5.467	1.536	0.786
146	1.133	6.3	1.529	0.857
147	1.133	5.567	1.487	0.77
148	1.067	5.367	1.461	0.742
149	1.033	5.667	1.476	0.809
150	1.067	6.333	1.484	0.897
151	1.033	5.267	1.419	0.749
152	1	5.5	1.409	0.778
153	1	5.767	1.413	0.828
154	0.867	5.533	1.38	0.786
155	0.8	5.6	1.377	0.818
156	0.8	5.467	1.371	0.827
157	0.767	5.767	1.351	0.832
158	0.767	5.733	1.329	0.856
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159	0.767	5.733	1.271	0.836
160	0.767	5.067	1.234	0.786
161	0.767	5.333	1.205	0.83
162	0.767	5.567	1.183	0.852
163	0.733	5.467	1.128	0.811
164	0.733	5.7	1.117	0.87
165	0.733	5.267	1.081	0.823
166	0.733	5.467	1.049	0.803
167	0.733	5.067	1.026	0.758
168	0.733	5.467	1.037	0.82
169	0.733	5.233	1.021	0.804
170	0.7	5.667	1.069	0.901
171	0.733	5.033	1.013	0.787
172	0.733	5.6	1.013	0.823
173	0.7	5.033	0.998	0.773
174	0.667	5.167	1	0.786
175	0.667	5.5	1.021	0.852
176	0.633	5.367	1.007	0.814
177	0.633	5.433	1.014	0.819
178	0.633	5	0.976	0.758
179	0.633	5.4	0.972	0.794
180	0.633	4.633	0.948	0.738
181	0.6	5.233	0.925	0.751
182	0.6	5.1	0.951	0.792
183	0.567	5.067	0.951	0.81
184	0.467	4.667	0.925	0.755
185	0.5	5.267	0.948	0.842
186	0.5	4.733	0.892	0.758
187	0.5	5.133	0.894	0.812
188	0.467	5.033	0.888	0.831
189	0.467	5.1	0.843	0.806
190	0.467	5.033	0.842	0.837
191	0.433	5.267	0.821	0.863
192	0.433	4.467	0.779	0.763
193	0.467	4.933	0.749	0.775
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194	0.467	5.033	0.771	0.834
195	0.433	5.367	0.725	0.797
196	0.433	4.767	0.734	0.795
197	0.433	5.133	0.751	0.831
198	0.4	5.4	0.757	0.85
199	0.4	4.633	0.737	0.778
200	0.367	5.067	0.738	0.824
201	0.367	5.167	0.734	0.818
202	0.367	5.267	0.744	0.851
203	0.367	5.267	0.714	0.832
204	0.367	5.133	0.692	0.821
205	0.367	5.133	0.654	0.803
206	0.367	4.6	0.637	0.779
207	0.367	4.8	0.656	0.813
208	0.333	5.1	0.669	0.862
209	0.267	4.867	0.619	0.78
210	0.267	4.867	0.635	0.81
211	0.233	5.133	0.618	0.801
212	0.2	4.5	0.624	0.766
213	0.2	5	0.632	0.823
214	0.2	5.067	0.628	0.837
215	0.2	4.8	0.584	0.775
216	0.2	4.8	0.574	0.792
217	0.2	4.933	0.531	0.793
218	0.2	4.9	0.518	0.814
219	0.167	4.8	0.505	0.81
220	0.167	4.7	0.47	0.781
221	0.167	4.933	0.48	0.815
222	0.133	4.767	0.463	0.792
223	0.133	4.933	0.49	0.854
224	0.133	4.733	0.457	0.793
225	0.133	4.633	0.434	0.768
226	0.1	4.433	0.41	0.74
227	0.1	4.6	0.425	0.777
228	0.1	4.6	0.404	0.754
229	0.1	4.567	0.418	0.808

230	0.1	4.567	0.427	0.83
231	0.067	5.133	0.419	0.847
232	0.067	4.367	0.379	0.767
233	0.067	4.7	0.38	0.804
234	0.067	4.967	0.389	0.827
235	0.067	4.867	0.386	0.836
236	0.067	4.9	0.395	0.854
237	0.067	5.4	0.389	0.888
238	0.067	4.633	0.348	0.794
239	0.067	4.733	0.384	0.858
240	0.067	4.467	0.345	0.797
241	0.067	5.1	0.37	0.851
242	0.067	4.4	0.332	0.775
243	0.067	4.467	0.34	0.803
244	0.067	4.767	0.346	0.804
245	0.067	4.167	0.314	0.749
246	0.067	4.4	0.308	0.735
247	0.067	4.233	0.334	0.758
248	0.067	4.633	0.336	0.803
249	0.067	5.033	0.357	0.856
250	0.067	4.733	0.351	0.829
251	0.067	4.667	0.341	0.816
252	0.067	4.767	0.365	0.855
253	0.067	4.233	0.36	0.791
254	0.067	4.733	0.361	0.849
255	0.067	4.533	0.321	0.772
256	0.067	4.6	0.338	0.807
257	0.067	5.067	0.345	0.831
258	0.067	4.7	0.346	0.81
259	0.067	4.4	0.362	0.813
260	0.067	5.033	0.378	0.871
261	0.067	4.967	0.363	0.861
262	0.067	4.533	0.322	0.774
263	0.067	4.633	0.324	0.779
264	0.067	4.733	0.341	0.805

265	0.067	4.567	0.338	0.794
266	0.067	4.7	0.337	0.818
267	0.067	4.633	0.347	0.835
268	0.067	4.533	0.336	0.802
269	0.067	4.8	0.325	0.802
270	0.067	4.967	0.37	0.871
271	0.067	4.467	0.313	0.753
272	0.067	4.967	0.354	0.851
273	0.067	4.567	0.347	0.815
274	0.067	4.633	0.322	0.794
275	0.067	5.067	0.35	0.861
276	0.067	4.933	0.351	0.851
277	0.067	4.933	0.336	0.818
278	0.067	4.267	0.336	0.771
279	0.067	4.533	0.346	0.794
280	0.067	4.467	0.372	0.849
281	0.067	4.8	0.353	0.815
282	0.067	4.367	0.33	0.785
283	0.067	4.167	0.33	0.77
284	0.067	4.533	0.341	0.804
285	0.067	4.767	0.351	0.814
286	0.067	4.767	0.366	0.846
287	0.067	4.633	0.343	0.791
288	0.067	4.867	0.345	0.825
289	0.067	4.733	0.336	0.806
290	0.067	4.6	0.343	0.817
291	0.067	4.6	0.337	0.793
292	0.067	4.667	0.359	0.823
293	0.067	4.5	0.344	0.805
294	0.067	4.833	0.344	0.83
295	0.067	4.5	0.344	0.794
296	0.067	4.433	0.328	0.774
297	0.067	4.967	0.369	0.86
298	0.067	4.833	0.354	0.811
299	0.067	4.067	0.301	0.711
=27	3.307	11307	2.301	2.7.22

0.8	0.338	4.5	0.067	300
0.799	0.343	4.533	0.067	301
0.735	0.309	4.267	0.067	302
0.782	0.328	4.767	0.067	303
0.793	0.336	4.467	0.033	304
0.73	0.315	4.167	0.033	305
0.813	0.33	5	0.033	306
0.791	0.34	4.367	0.033	307
0.771	0.331	4.3	0.033	308
0.822	0.355	4.6	0.033	309
0.816	0.338	4.933	0.033	310
0.776	0.329	4.433	0.033	311
0.801	0.348	4.333	0.033	312
0.74	0.314	4.167	0.033	313
0.783	0.31	4.567	0.033	314
0.779	0.31	4.5	0.033	315
0.837	0.339	4.667	0.033	316
0.791	0.31	4.367	0.033	317
0.848	0.336	4.633	0.033	318
0.818	0.318	4.5	0.033	319
0.831	0.305	5	0.033	320
0.773	0.297	4.5	0.033	321
0.792	0.295	4.567	0.033	322
0.799	0.314	4.633	0.033	323
0.847	0.336	4.833	0.033	324
0.85	0.338	4.733	0.033	325
0.848	0.335	5.033	0.033	326
0.791	0.312	4.233	0.033	327
0.793	0.312	4.533	0.033	328
0.809	0.312	4.467	0.033	329
0.864	0.333	5.2	0.033	330
0.809	0.311	4.533	0.033	331
0.75	0.288	4.2	0.033	332
0.879	0.332	4.867	0.033	333
0.828	0.323	4.633	0.033	334

335	0.033	5	0.31	0.837
336	0.033	4.7	0.3	0.797
337	0.033	4.9	0.318	0.819
338	0.033	4.4	0.269	0.748
339	0.033	3.967	0.273	0.721
340	0.033	4.467	0.308	0.799
341	0.033	4.5	0.313	0.797
342	0.033	4.5	0.32	0.818
343	0.033	4.267	0.302	0.787
344	0.033	4.233	0.297	0.743
345	0.033	4.767	0.295	0.797
346	0.033	4.233	0.289	0.763
347	0.033	4.933	0.32	0.844
348	0.033	4.733	0.311	0.817
349	0.033	4.533	0.311	0.812
350	0.033	5.1	0.324	0.852
351	0.033	4.9	0.312	0.826
352	0.033	4.467	0.286	0.784
353	0.033	4.667	0.303	0.813
354	0.033	4.467	0.312	0.798
355	0.033	4.067	0.282	0.756
356	0.033	4.567	0.325	0.834
357	0.033	4.567	0.318	0.818
358	0.033	4.833	0.318	0.819
359	0.033	4.333	0.298	0.78
360	0.033	4.167	0.285	0.744
361	0.033	4.167	0.298	0.768
362	0.033	4.433	0.326	0.819
363	0.033	4.833	0.32	0.835
364	0.033	4.8	0.317	0.845
365	0.033	4.4	0.324	0.822
366	0.033	4.467	0.312	0.799
367	0.033	4.7	0.299	0.779
368	0.033	4.533	0.295	0.786
369	0.033	4.5	0.288	0.766
370	0.033	4.433	0.306	0.792

	2 2 2 2		2.5	A = -
371	0.033	4.3	0.291	0.76
372	0.033	4.667	0.304	0.808
373	0.033	4.5	0.293	0.771
374	0.033	4.5	0.311	0.794
375	0.033	4.433	0.305	0.788
2= (	0.000		0.00	0.05-
376	0.033	5.1	0.33	0.867
377	0.033	4.733	0.327	0.851
378	0.033	5	0.315	0.842
379	0.033	4.567	0.325	0.843
380	0.033	4.3	0.304	0.787
381	0.033	4.567	0.296	0.789
382	0.033	4.033	0.294	0.746
383	0.033	4.633	0.319	0.827
384	0.033	4.333	0.291	0.755
385	0.033	4.5	0.308	0.804
386	0.033	4.8	0.331	0.846
387	0.033	4.367	0.307	0.781
388	0.033	4.233	0.271	0.736
389	0.033	4.5	0.306	0.797
390	0.033	5	0.326	0.854
391	0.033	4.6	0.305	0.809
392	0.033	5.1	0.34	0.878
393	0.033	4.633	0.306	0.799
394	0.033	4.7	0.329	0.85
395	0.033	4.7	0.313	0.812
396	0.033	4.867	0.321	0.838
397	0.033	4.567	0.323	0.827
398	0.033	5.233	0.333	0.867
399	0.033	4.6	0.316	0.831
400	0.033	4.433	0.288	0.77
401	0.033	4.567	0.328	0.834
402	0.033	4.7	0.292	0.797
403	0.033	4.2	0.302	0.778
404	0.033	4.367	0.305	0.796
405	0.033	4.533	0.306	0.788
703	0.033	т.555	0.500	0.700

406	0.033	4.3	0.287	0.757
407	0.033	4.533	0.281	0.772
408	0.033	4.767	0.301	0.82
409	0.033	4.467	0.305	0.787
410	0.033	4.233	0.285	0.747
411	0	4.367	0.301	0.774
412	0	4.733	0.322	0.823
413	0	4.2	0.289	0.75
414	0	4.4	0.295	0.776
415	0	5.1	0.325	0.853
416	0	4.667	0.293	0.792
417	0	4.6	0.306	0.808
418	0	4.433	0.293	0.792
419	0	4.933	0.301	0.856
420	0	4.667	0.3	0.849
421	0	3.967	0.265	0.736
422	0	4.733	0.285	0.831
423	0	4.567	0.291	0.832
424	0	4.833	0.29	0.838
425	0	5	0.294	0.871
426	0	4.7	0.279	0.827
427	0	4.467	0.28	0.815
428	0	4.7	0.274	0.815
429	0	4.567	0.301	0.849
430	0	4.4	0.271	0.774
431	0	4.367	0.285	0.804
432	0	4.267	0.281	0.787
433	0	4.6	0.29	0.821
434	0	4.4	0.263	0.779
435	0	4.3	0.27	0.768
436	0	4.7	0.281	0.804
437	0	4.4	0.265	0.778
438	0	4.5	0.269	0.791
439	0	4.333	0.254	0.765
440	0	3.9	0.243	0.715

441	0	4.733	0.275	0.813
442	0	4.5	0.255	0.77
443	0	4.733	0.288	0.842
444	0	4.433	0.291	0.808
445	0	4.4	0.265	0.765
446	0	4.767	0.272	0.814
447	0	4.333	0.267	0.778
448	0	5.067	0.295	0.861
449	0	4.433	0.274	0.789
450	0	4.7	0.279	0.819
451	0	4.433	0.28	0.807
452	0	4.267	0.268	0.772
453	0	4.233	0.251	0.746
454	0	4.6	0.268	0.792
455	0	4.267	0.268	0.783
456	0	4.833	0.302	0.859
457	0	4.733	0.273	0.809
458	0	4.7	0.266	0.786
459	0	4.667	0.275	0.807
460	0	4.833	0.272	0.795
461	0	4.733	0.284	0.823
462	0	4.967	0.281	0.837
463	0	4.833	0.278	0.832
464	0	4.767	0.277	0.831
465	0	4.433	0.288	0.812
466	0	4.667	0.28	0.829
467	0	4.733	0.294	0.85
468	0	4.333	0.263	0.769
469	0	4.567	0.268	0.789
470	0	4.633	0.289	0.828
471	0	4.567	0.296	0.84
472	0	4.733	0.28	0.807
473	0	5.233	0.3	0.891
474	0	4.5	0.28	0.798
475	0	4.767	0.29	0.848

476	0	4.467	0.282	0.811
477	0	4.867	0.271	0.828
478	0	4.5	0.265	0.766
479	0	4.533	0.279	0.799
480	0	4.633	0.273	0.801
481	0	4.533	0.272	0.793
482	0	4.8	0.274	0.814
483	0	4.233	0.271	0.776
484	0	4.4	0.277	0.815
485	0	4.4	0.275	0.79
486	0	4.667	0.296	0.837
487	0	4.9	0.289	0.845
488	0	4.5	0.277	0.799
489	0	4.467	0.269	0.791
490	0	4.233	0.254	0.747
491	0	4.533	0.279	0.834
492	0	4.6	0.284	0.825
493	0	4.733	0.283	0.82
494	0	4.767	0.295	0.841
495	0	4.367	0.254	0.76
496	0	4.333	0.265	0.792
497	0	4.933	0.284	0.838
498	0	4.767	0.285	0.826
499	0	4.867	0.286	0.821
500	0	4.5	0.278	0.811

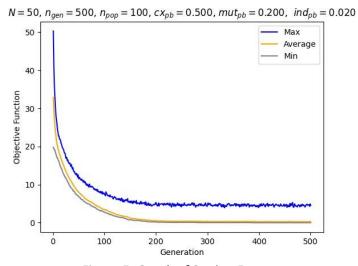


Figure 5: Graph of Setting 5

Section 6: N = 50,  $n_{gen} = 500$ , pop = 100, expb = 0.5, mutpb = 0.5, indpb = 0.01

# Table of setting 6

Generation	Minimum Fitness	Maximum Fitness	Average Fitness	Standard deviation
1	20.733	49.233	32.95	5.536
2	20.467	41.667	29.768	4.283
3	20.1	36.267	27.497	3.428
4	19.733	33.4	25.722	2.817
5	19.367	30.333	24.279	2.417
6	18.867	28.867	23.097	2.12
7	18.4	27.467	22.069	1.82
8	17.867	26.467	21.25	1.55
9	17.3	24.9	20.63	1.36
10	16.933	23.9	20.061	1.248
11	16.4	23.733	19.539	1.266
12	16.133	22.867	19.043	1.269
13	15.7	22.6	18.538	1.264
14	15.233	22.433	18.047	1.288
15	14.8	21.5	17.542	1.209
16	14.3	21.233	17.103	1.2
17	13.833	20.733	16.658	1.181
18	13.567	20.1	16.241	1.167
19	13.133	20.033	15.822	1.169

21         12.667         19.567         15.048         1.174           22         12.4         18.533         14.663         1.13           23         12.067         18.033         14.266         1.079           24         11.633         18.167         13.953         1.136           25         11.333         17.133         13.551         1.051           26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.939           36         8.667         13.					
22         12.4         18.533         14.663         1.13           23         12.067         18.033         14.266         1.079           24         11.633         18.167         13.953         1.136           25         11.333         17.133         13.551         1.051           26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033 </td <td>20</td> <td>12.9</td> <td>19.533</td> <td>15.419</td> <td>1.155</td>	20	12.9	19.533	15.419	1.155
23         12.067         18.033         14.266         1.079           24         11.633         18.167         13.953         1.136           25         11.333         17.133         13.551         1.051           26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.033           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467	21	12.667	19.567	15.048	1.174
24         11.633         18.167         13.953         1.136           25         11.333         17.133         13.551         1.051           26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3 <td>22</td> <td>12.4</td> <td>18.533</td> <td>14.663</td> <td>1.13</td>	22	12.4	18.533	14.663	1.13
25         11.333         17.133         13.551         1.051           26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267	23	12.067	18.033	14.266	1.079
26         11.033         16.767         13.193         1.016           27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167	24	11.633	18.167	13.953	1.136
27         10.833         16.7         12.865         0.992           28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.033           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.965           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333	25	11.333	17.133	13.551	1.051
28         10.4         16.433         12.616         1.019           29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         <	26	11.033	16.767	13.193	1.016
29         10.233         15.767         12.329         0.995           30         9.967         16         12.048         1.033           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         <	27	10.833	16.7	12.865	0.992
30         9.967         16         12.048         1.053           31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8	28	10.4	16.433	12.616	1.019
31         9.633         15.5         11.717         1.038           32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2	29	10.233	15.767	12.329	0.995
32         9.533         15.133         11.392         1.03           33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.1	30	9.967	16	12.048	1.053
33         9.4         15         11.11         1.007           34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.174         0.906           48         6.467         11.6         7.999	31	9.633	15.5	11.717	1.038
34         9.1         14.367         10.816         0.966           35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.174         0.906           48         6.467         11.6         7.999         0.896           49         6.333         11.433 <td< td=""><td>32</td><td>9.533</td><td>15.133</td><td>11.392</td><td>1.03</td></td<>	32	9.533	15.133	11.392	1.03
35         8.8         14.4         10.559         0.959           36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.174         0.906           48         6.467         11.6         7.999         0.896           49         6.333         11.433         7.807         0.873           50         6.1         11.367	33	9.4	15	11.11	1.007
36         8.667         13.9         10.309         0.928           37         8.5         14.033         10.068         0.934           38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.174         0.906           48         6.467         11.6         7.999         0.896           49         6.333         11.433         7.807         0.873           50         6.1         11.367         7.655         0.901           51         5.967         10.933         <	34	9.1	14.367	10.816	0.966
37       8.5       14.033       10.068       0.934         38       8.267       13.467       9.861       0.907         39       7.967       13.3       9.68       0.916         40       7.867       13.267       9.474       0.931         41       7.633       13.167       9.241       0.919         42       7.5       12.333       9.038       0.881         43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.9	35	8.8	14.4	10.559	0.959
38         8.267         13.467         9.861         0.907           39         7.967         13.3         9.68         0.916           40         7.867         13.267         9.474         0.931           41         7.633         13.167         9.241         0.919           42         7.5         12.333         9.038         0.881           43         7.433         12.3         8.876         0.881           44         7.233         12.367         8.717         0.934           45         6.9         12.167         8.507         0.907           46         6.733         12.2         8.34         0.91           47         6.7         11.833         8.174         0.906           48         6.467         11.6         7.999         0.896           49         6.333         11.433         7.807         0.873           50         6.1         11.367         7.655         0.901           51         5.967         10.933         7.491         0.923           52         5.733         10.8         7.275         0.895           53         5.667         10.867         <	36	8.667	13.9	10.309	0.928
39       7.967       13.3       9.68       0.916         40       7.867       13.267       9.474       0.931         41       7.633       13.167       9.241       0.919         42       7.5       12.333       9.038       0.881         43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	37	8.5	14.033	10.068	0.934
40       7.867       13.267       9.474       0.931         41       7.633       13.167       9.241       0.919         42       7.5       12.333       9.038       0.881         43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	38	8.267	13.467	9.861	0.907
41       7.633       13.167       9.241       0.919         42       7.5       12.333       9.038       0.881         43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	39	7.967	13.3	9.68	0.916
42       7.5       12.333       9.038       0.881         43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	40	7.867	13.267	9.474	0.931
43       7.433       12.3       8.876       0.881         44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	41	7.633	13.167	9.241	0.919
44       7.233       12.367       8.717       0.934         45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	42	7.5	12.333	9.038	0.881
45       6.9       12.167       8.507       0.907         46       6.733       12.2       8.34       0.91         47       6.7       11.833       8.174       0.906         48       6.467       11.6       7.999       0.896         49       6.333       11.433       7.807       0.873         50       6.1       11.367       7.655       0.901         51       5.967       10.933       7.491       0.923         52       5.733       10.8       7.275       0.895         53       5.667       10.867       7.117       0.928	43	7.433	12.3	8.876	0.881
46     6.733     12.2     8.34     0.91       47     6.7     11.833     8.174     0.906       48     6.467     11.6     7.999     0.896       49     6.333     11.433     7.807     0.873       50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	44	7.233	12.367	8.717	0.934
47     6.7     11.833     8.174     0.906       48     6.467     11.6     7.999     0.896       49     6.333     11.433     7.807     0.873       50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	45	6.9	12.167	8.507	0.907
48     6.467     11.6     7.999     0.896       49     6.333     11.433     7.807     0.873       50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	46	6.733	12.2	8.34	0.91
48     6.467     11.6     7.999     0.896       49     6.333     11.433     7.807     0.873       50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928					
49     6.333     11.433     7.807     0.873       50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	47	6.7	11.833	8.174	0.906
50     6.1     11.367     7.655     0.901       51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	48	6.467	11.6	7.999	0.896
51     5.967     10.933     7.491     0.923       52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	49	6.333	11.433	7.807	0.873
52     5.733     10.8     7.275     0.895       53     5.667     10.867     7.117     0.928	50	6.1	11.367	7.655	0.901
53 5.667 10.867 7.117 0.928	51	5.967	10.933	7.491	0.923
	52	5.733	10.8	7.275	0.895
54 5.533 10.767 6.946 0.903	53	5.667	10.867	7.117	0.928
	54	5.533	10.767	6.946	0.903

55	5.467	10.533	6.783	0.872
56	5.367	10.467	6.654	0.927
57	5.233	10.067	6.48	0.875
58	5	9.967	6.335	0.882
59	4.767	9.667	6.177	0.887
60	4.767	9.633	6.003	0.877
61	4.733	9.567	5.858	0.866
62	4.533	9.067	5.711	0.838
63	4.433	9.267	5.625	0.894
64	4.233	8.8	5.482	0.837
65	4.167	8.7	5.36	0.833
66	3.933	8.8	5.243	0.87
67	3.933	8.933	5.122	0.862
68	3.833	9.133	5.031	0.902
69	3.633	8.633	4.927	0.866
70	3.633	8.833	4.824	0.867
71	3.533	8.2	4.701	0.849
72	3.533	8.133	4.6	0.884
73	3.433	8	4.465	0.859
74	3.267	7.9	4.363	0.867
75	3.233	8.3	4.27	0.888
76	3.2	7.833	4.164	0.867
77	3.033	7.7	4.059	0.84
78	2.967	7.567	3.991	0.828
79	2.867	7.467	3.901	0.841
80	2.733	7.5	3.806	0.84
81	2.633	6.967	3.711	0.809
82	2.633	7.3	3.638	0.854
83	2.5	7.267	3.543	0.865
84	2.467	7.367	3.456	0.878
85	2.333	7.067	3.416	0.926
86	2.3	6.6	3.255	0.828
87	2.233	6.933	3.189	0.879
88	2.167	6.8	3.114	0.878
89	2.167	6.567	3.015	0.843
90	1.967	6.433	2.933	0.821

91	1.967	6.433	2.877	0.852
92	1.933	6.533	2.829	0.875
93	1.9	6.233	2.73	0.85
	2.0	0.255	2.,, c	
94	1.8	6.333	2.638	0.838
95	1.767	6.267	2.585	0.865
96	1.733	6.2	2.52	0.854
97	1.733	6.133	2.465	0.86
98	1.6	6	2.403	0.813
99	1.5	6.333	2.396	0.89
100	1.433	5.8	2.335	0.838
101	1.433	5.9	2.278	0.834
102	1.4	5.833	2.202	0.81
103	1.333	5.5	2.137	0.805
104	1.267	5.767	2.095	0.827
105	1.267	5.667	2.037	0.855
106	1.167	5.633	1.983	0.853
107	1.2	5.767	1.93	0.855
108	1.1	5.267	1.872	0.821
109	1.033	5.1	1.818	0.814
110	1.033	5.367	1.758	0.814
111	0.9	5.3	1.712	0.831
112	0.9	5.267	1.647	0.797
113	0.9	5.233	1.631	0.824
114	0.867	5.267	1.591	0.853
115	0.833	5.067	1.519	0.82
116	0.8	4.867	1.488	0.834
117	0.733	5.067	1.442	0.834
118	0.7	5.167	1.418	0.86
119	0.633	4.667	1.338	0.789
120	0.567	5.233	1.327	0.85
121	0.6	5.267	1.303	0.865
122	0.533	4.633	1.216	0.794
123	0.533	4.767	1.235	0.843
124	0.5	4.9	1.192	0.859
125	0.467	4.833	1.132	0.818

126	0.433	4.533	1.098	0.836
127	0.4	4.733	1.058	0.844
128	0.3	4.567	1.027	0.835
129	0.333	4.3	0.955	0.79
130	0.333	4.533	0.93	0.83
131	0.333	4.5	0.893	0.831
132	0.333	4.233	0.855	0.817
133	0.267	4.167	0.806	0.804
134	0.267	4.533	0.798	0.852
135	0.233	4.3	0.761	0.83
136	0.233	4.3	0.72	0.824
137	0.233	4.1	0.686	0.801
138	0.2	4	0.665	0.787
139	0.2	4.033	0.655	0.786
140	0.133	4.333	0.643	0.819
141	0.133	4.067	0.638	0.823
142	0.133	4.3	0.622	0.826
143	0.133	4.5	0.608	0.841
144	0.133	4.3	0.589	0.811
145	0.133	4.733	0.625	0.909
146	0.133	4.667	0.591	0.878
147	0.1	4.3	0.57	0.845
148	0.1	4.133	0.553	0.829
149	0.067	4.233	0.541	0.842
150	0.033	4.233	0.529	0.832
151	0.033	4.367	0.52	0.846
152	0.033	4.2	0.503	0.824
153	0.033	4.233	0.486	0.805
154	0.033	4.2	0.511	0.845
155	0.033	4.1	0.497	0.838
156	0.033	4	0.49	0.812
157	0.033	3.767	0.456	0.789
158	0.033	4.233	0.479	0.836
159	0.033	4.067	0.451	0.827
160	0	4.1	0.436	0.805

162         0         4.033         0.433         0.819           163         0         4.4         0.449         0.862           164         0         4.267         0.45         0.868           165         0         3.967         0.406         0.802           166         0         3.633         0.39         0.781           167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815					
163         0         4.4         0.449         0.862           164         0         4.267         0.45         0.868           165         0         3.967         0.406         0.802           166         0         3.633         0.39         0.781           167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.867         0.37         0.807           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863	161	0	4.167	0.442	0.824
164         0         4.267         0.45         0.868           165         0         3.967         0.406         0.802           166         0         3.633         0.39         0.781           167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.867         0.37         0.807           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793	162	0	4.033	0.433	0.819
165         0         3.967         0.406         0.802           166         0         3.633         0.39         0.781           167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.867         0.37         0.807           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792	163	0	4.4	0.449	0.862
166         0         3.633         0.39         0.781           167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845	164	0	4.267	0.45	0.868
167         0         3.667         0.362         0.754           168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778	165	0	3.967	0.406	0.802
168         0         4.167         0.397         0.835           169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859	166	0	3.633	0.39	0.781
169         0         3.733         0.379         0.801           170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.818	167	0	3.667	0.362	0.754
170         0         4         0.371         0.809           171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818	168	0	4.167	0.397	0.835
171         0         4.3         0.37         0.819           172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.344         0.818           186         0         4.067         0.371         0.81	169	0	3.733	0.379	0.801
172         0         4.067         0.361         0.805           173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809	170	0	4	0.371	0.809
173         0         3.867         0.349         0.772           174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777	171	0	4.3	0.37	0.819
174         0         3.9         0.367         0.804           175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758	172	0	4.067	0.361	0.805
175         0         3.8         0.357         0.786           176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.80           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808 <tr< td=""><td>173</td><td>0</td><td>3.867</td><td>0.349</td><td>0.772</td></tr<>	173	0	3.867	0.349	0.772
176         0         3.867         0.37         0.807           177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808	174	0	3.9	0.367	0.804
177         0         3.933         0.38         0.815           178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822	175	0	3.8	0.357	0.786
178         0         4.3         0.415         0.863           179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786 <tr< td=""><td>176</td><td>0</td><td>3.867</td><td>0.37</td><td>0.807</td></tr<>	176	0	3.867	0.37	0.807
179         0         3.933         0.372         0.793           180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.80           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802 <td>177</td> <td>0</td> <td>3.933</td> <td>0.38</td> <td>0.815</td>	177	0	3.933	0.38	0.815
180         0         3.667         0.364         0.792           181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802	178	0	4.3	0.415	0.863
181         0         4.1         0.387         0.845           182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.80           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802	179	0	3.933	0.372	0.793
182         0         3.767         0.357         0.778           183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.809           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802	180	0	3.667	0.364	0.792
183         0         4.267         0.406         0.859           184         0         4.133         0.394         0.835           185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802	181	0	4.1	0.387	0.845
184       0       4.133       0.394       0.835         185       0       3.867       0.384       0.818         186       0       4.067       0.371       0.81         187       0       4       0.377       0.809         188       0       3.767       0.347       0.777         189       0       4.067       0.373       0.818         190       0       3.5       0.352       0.758         191       0       3.867       0.372       0.808         192       0       4.033       0.377       0.822         193       0       3.867       0.364       0.786         194       0       3.967       0.374       0.802	182	0	3.767	0.357	0.778
185         0         3.867         0.384         0.818           186         0         4.067         0.371         0.81           187         0         4         0.377         0.809           188         0         3.767         0.347         0.777           189         0         4.067         0.373         0.818           190         0         3.5         0.352         0.758           191         0         3.867         0.372         0.808           192         0         4.033         0.377         0.822           193         0         3.867         0.364         0.786           194         0         3.967         0.374         0.802	183	0	4.267	0.406	0.859
186     0     4.067     0.371     0.81       187     0     4     0.377     0.809       188     0     3.767     0.347     0.777       189     0     4.067     0.373     0.818       190     0     3.5     0.352     0.758       191     0     3.867     0.372     0.808       192     0     4.033     0.377     0.822       193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	184	0	4.133	0.394	0.835
187     0     4     0.377     0.809       188     0     3.767     0.347     0.777       189     0     4.067     0.373     0.818       190     0     3.5     0.352     0.758       191     0     3.867     0.372     0.808       192     0     4.033     0.377     0.822       193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	185	0	3.867	0.384	0.818
188       0       3.767       0.347       0.777         189       0       4.067       0.373       0.818         190       0       3.5       0.352       0.758         191       0       3.867       0.372       0.808         192       0       4.033       0.377       0.822         193       0       3.867       0.364       0.786         194       0       3.967       0.374       0.802	186	0	4.067	0.371	0.81
189       0       4.067       0.373       0.818         190       0       3.5       0.352       0.758         191       0       3.867       0.372       0.808         192       0       4.033       0.377       0.822         193       0       3.867       0.364       0.786         194       0       3.967       0.374       0.802	187	0	4	0.377	0.809
189       0       4.067       0.373       0.818         190       0       3.5       0.352       0.758         191       0       3.867       0.372       0.808         192       0       4.033       0.377       0.822         193       0       3.867       0.364       0.786         194       0       3.967       0.374       0.802					
190     0     3.5     0.352     0.758       191     0     3.867     0.372     0.808       192     0     4.033     0.377     0.822       193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	188	0	3.767	0.347	0.777
191     0     3.867     0.372     0.808       192     0     4.033     0.377     0.822       193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	189	0	4.067	0.373	0.818
192     0     4.033     0.377     0.822       193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	190	0	3.5	0.352	0.758
193     0     3.867     0.364     0.786       194     0     3.967     0.374     0.802	191	0	3.867	0.372	0.808
194 0 3.967 0.374 0.802	192	0	4.033	0.377	0.822
	193	0	3.867	0.364	0.786
195 0 3.867 0.376 0.808	194	0	3.967	0.374	0.802
	195	0	3.867	0.376	0.808

196	0	3.767	0.374	0.805
197	0	3.8	0.344	0.765
198	0	4.2	0.406	0.851
199	0	4.1	0.376	0.81
200	0	4.1	0.369	0.811
201	0	4	0.367	0.807
202	0	3.933	0.368	0.8
203	0	3.967	0.369	0.809
204	0	3.9	0.372	0.822
205	0	4.1	0.388	0.827
206	0	4	0.376	0.818
207	0	4.133	0.386	0.829
208	0	4.467	0.391	0.85
209	0	3.833	0.362	0.792
210	0	4	0.401	0.839
211	0	4	0.372	0.817
212	0	4.067	0.383	0.808
213	0	4.1	0.39	0.83
214	0	3.8	0.363	0.788
215	0	3.7	0.343	0.762
216	0	4	0.343	0.792
217	0	3.967	0.358	0.791
218	0	4.133	0.392	0.84
219	0	3.933	0.369	0.804
220	0	3.867	0.373	0.792
221	0	3.9	0.383	0.803
222	0	3.833	0.37	0.799
223	0	4.133	0.369	0.816
224	0	4	0.363	0.801
225	0	4.167	0.372	0.826
226	0	4.433	0.384	0.841
227	0	3.833	0.346	0.768
228	0	4	0.377	0.815
229	0	4.033	0.358	0.793
230	0	4.067	0.399	0.851
231	0	3.967	0.37	0.807

232	0	4	0.364	0.8
233	0	3.667	0.373	0.789
234	0	4.1	0.375	0.807
235	0	3.7	0.389	0.817
236	0	3.967	0.375	0.815
237	0	3.967	0.389	0.811
238	0	3.5	0.359	0.767
239	0	4.067	0.353	0.801
240	0	4.233	0.357	0.805
241	0	3.9	0.395	0.836
242	0	3.967	0.389	0.816
243	0	4.267	0.407	0.867
244	0	4	0.374	0.797
245	0	4.033	0.351	0.796
246	0	3.633	0.363	0.781
247	0	4.3	0.372	0.817
248	0	3.7	0.365	0.79
249	0	3.933	0.361	0.801
250	0	4	0.361	0.793
251	0	3.833	0.369	0.791
252	0	4.1	0.385	0.842
253	0	3.567	0.351	0.757
254	0	4.167	0.379	0.826
255	0	4.133	0.362	0.82
256	0	3.9	0.373	0.803
257	0	3.7	0.373	0.792
258	0	4.1	0.343	0.789
259	0	4.033	0.328	0.769
260	0	3.967	0.383	0.839
261	0	4.1	0.367	0.806
262	0	3.567	0.336	0.744
263	0	4.067	0.393	0.833
264	0	4.033	0.373	0.808
265	0	3.8	0.372	0.801
266	0	3.833	0.385	0.817
267	0	4.033	0.39	0.823
267	0	4.033	0.39	0.823

268	0	3.933	0.38	0.805
269	0	4.233	0.382	0.825
270	0	3.833	0.367	0.787
271	0	4.167	0.363	0.822
	0	4.167		0.838
272			0.378	
273	0	4.067	0.38	0.824
274	0	4.4	0.367	0.824
275	0	3.6	0.369	0.787
276	0	3.8	0.375	0.808
277	0	3.7	0.383	0.806
278	0	3.9	0.369	0.792
279	0	4.233	0.371	0.806
280	0	4.233	0.358	0.807
281	0	4.133	0.389	0.841
282	0	3.8	0.365	0.788
283	0	3.733	0.386	
284	0	4.167	0.395	
285	0	3.933	0.377	0.798
286	0	4.167	0.378	0.822
287	0	4.367	0.398	0.854
288	0	4.2	0.364	0.812
289	0	3.867	0.372	0.799
290	0	4.133	0.396	
291	0	4.033	0.393	0.821
292	0	3.967	0.39	
293	0	4	0.392	0.84
294	0	3.733	0.364	0.779
295	0		0.391	
296	0	4.633	0.396	
297 298	0	4.033	0.384 0.355	
298	0	3.967	0.339	
300	0	3.967	0.358	
301	0	3.833	0.365	
302	0	3.967	0.37	0.81
303	0	4.133	0.367	0.81
304	0	4	0.376	0.823
305	0	3.933	0.393	
306	0	4.033	0.376	0.825
307	0	4.067	0.392	0.838
308	0	3.9	0.365	0.799

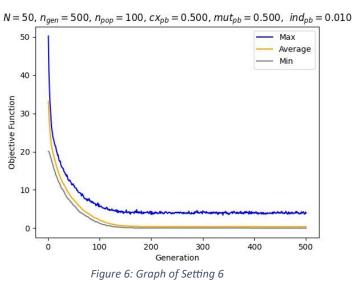
309	0	4.2	0.399	0.846
310	0		0.398	0.847
311	0	4.067	0.403	0.825
312	0	3.967	0.377	0.805
313	0		0.41	0.843
314	0		0.374	0.811
315	0		0.369	0.8
316	0	4.133	0.385	0.838
317	0	3.7	0.349	0.769
318	0	3.9	0.354	0.786
319	0	4.2	0.386	0.827
320	0	3.767	0.357	0.774
321	0	4.033	0.376	0.815
322	0	4.033	0.369	0.816
323	0	3.933	0.36	0.805
324	0	4.2	0.381	0.828
325	0	3.9	0.375	0.801
326	0	4.067	0.38	0.821
327	0	3.967	0.387	0.828
328	0	4	0.364	0.798
329	0	3.967	0.352	0.79
330	0		0.336	0.756
331	0	3.9	0.362	0.806
332	0		0.383	0.831
333	0		0.379	0.808
334	0		0.392	0.856
335	0	3.9	0.369	0.804
336	0	4	0.375	0.824
337	0		0.363	0.778
338	0		0.385	0.827
339	0		0.376	0.81
340	0		0.345	0.76
341	0		0.364	0.802
342	0		0.385	0.842
343	0		0.379	0.809
344	0		0.348	0.775
345	0	3.667	0.35	0.772
346	0		0.384	0.822
347	0		0.36	0.789
348	0		0.387	0.815
349	0		0.391	0.835
350	0	3.933	0.395	0.825
351	0		0.393	0.825
352	0	3.833	0.385	0.816

353	0	3.967	0.385	0.822
354	0	3.467	0.353	0.754
355	0	4.433	0.333	0.734
356	0	4.167	0.407	0.823
357	0	4.067	0.368	0.823
358	0	4.133	0.371	0.831
359	0	3.9	0.361	0.799
360	0	3.933	0.358	0.807
361	0	3.933	0.343	0.79
362	0	3.833	0.357	0.791
363	0	4.1	0.388	0.834
364	0	3.933	0.375	0.806
365	0	3.933	0.357	0.789
366	0		0.367	0.789
367	0	3.933	0.367	0.797
368	0	4.233	0.388	
369		4.233 3.967		0.838
	0	3.967	0.368	0.8
370	0		0.377	0.807
	0	3.8	0.372	0.801
372	0	3.9	0.386	0.82
373	0	4.167	0.387	0.84
374	0	3.667	0.363	0.774
375	0	4.1	0.382	0.828
376	0	4.2	0.361	0.802
377	0	3.967	0.362	0.804
378	0	4.1	0.409	0.858
379	0	3.9	0.382	0.813
380	0	4.3	0.401	0.845
381	0	4.1	0.35	0.794
382	0	3.8	0.357	0.778
383	0		0.373	0.804
384	0	3.8	0.358	
385	0	3.9	0.351	0.785
386	0	3.7	0.382	0.797
387	0	3.933	0.4	0.821
388	0	4.333	0.37	0.827
389	0	3.9	0.344	0.776
390	0	3.767	0.349	0.783
391	0	3.933	0.38	0.824
392	0	3.667	0.381	0.812
393	0	3.633	0.367	0.793
394	0	3.967	0.395	0.836
395	0	3.9	0.368	0.811
396	0	4.4	0.371	0.833

207				
397	0	4.2	0.388	0.839
398	0	3.8	0.372	0.796
399	0	3.933	0.372	0.794
400	0	4.133	0.396	0.818
401	0	4	0.411	0.832
402	0	4.6	0.408	0.87
403	0	4.2	0.38	0.834
404	0	3.9	0.379	0.802
405	0	3.567	0.354	0.767
406	0	3.867	0.38	0.818
407	0	4.033	0.364	0.814
408	0	3.833	0.348	0.779
409	0	3.967	0.386	0.827
410	0	3.867	0.331	0.751
411	0	3.833	0.347	0.773
412	0	4.067	0.38	0.815
413	0	3.8	0.401	0.828
414	0	3.933	0.367	0.789
415	0	3.633	0.38	0.788
416	0	4.033	0.376	
417	0	4.067	0.405	0.853
418	0	4.067	0.399	
419	0	3.867	0.346	0.771
420	0	3.8	0.351	0.778
421	0	4.4	0.38	
422	0	3.733	0.358	
423	0	3.967	0.372	0.806
424	0	3.9	0.378	0.802
425	0	4.1	0.38	0.817
426	0	3.567	0.362	0.779
427	0	3.9	0.367	0.809
428	0	3.833	0.362	0.791
429	0	4	0.379	0.826
430	0	3.967	0.375	
431	0	4	0.344	0.771
432	0	3.933	0.378	
433	0	3.667	0.35	
434	0	3.733	0.356	
435	0	4.167	0.373	0.821
436	0	4.1	0.369	0.821
437	0	4.333	0.391	0.858
438	0	3.6	0.354	
439	0	3.9	0.346	
440	0	3.833	0.343	0.767

441	0	3.967	0.352	0.79
442	0	4.2	0.366	0.815
443	0	4	0.364	0.798
444	0	3.9	0.367	0.797
445	0	3.8	0.362	0.784
446	0	4.033	0.387	0.827
447	0	3.933	0.367	0.79
448	0	4.033	0.366	0.809
449	0	4.1	0.366	0.807
450	0	3.867	0.361	0.786
451	0	4.133	0.397	0.848
452	0	3.8	0.371	0.808
453	0	4.333	0.374	0.821
454	0	3.833	0.351	0.765
455	0	3.433	0.344	0.741
456	0	3.867	0.364	0.797
457	0	3.867	0.383	0.807
458	0	3.933	0.356	0.791
459	0	3.967	0.348	0.782
460	0	3.967	0.38	0.812
461	0	4.333	0.399	0.852
462	0	4.167	0.405	0.842
463	0	3.967	0.374	0.808
464	0	3.8	0.367	0.795
465	0	3.833	0.389	0.813
466	0	3.867	0.37	0.799
467	0	3.9	0.377	0.808
468	0	4.067	0.367	0.814
469	0	4.067	0.365	0.801
470	0	4.2	0.389	0.82
471	0		0.386	0.831
472	0	4.1	0.387	0.828
473	0	3.833	0.397	0.825
474	0	3.9	0.369	0.791
475	0	4.167	0.388	0.833
476	0	4.133	0.364	0.814
477	0	3.8	0.356	0.793
478	0	3.867	0.383	0.81
479	0	4.1	0.386	0.826
480	0	3.833	0.366	0.795
481	0		0.381	0.845
482	0	3.9	0.376	0.802
483	0	3.8	0.38	0.812
484	0	3.833	0.367	0.796

485	0			
103	0	4	0.394	0.838
486	0	4.167	0.404	0.859
487	0	3.8	0.373	0.789
488	0	3.867	0.38	0.821
489	0	4	0.398	0.833
490	0	4	0.387	0.816
491	0	4.067	0.374	0.814
492	0	4.133	0.383	0.83
493	0	3.8	0.393	0.822
494	0	4.267	0.387	0.839
495	0	3.833	0.382	0.807
496	0	3.667	0.361	0.778
497	0	3.8	0.348	0.778
498	0	4.133	0.372	0.823
499	0	3.867	0.377	0.815
500	0	4.167	0.372	0.817



rigure 6. Grupii of Setting 6

**Q5:** The optimal configuration is determined by the setting that yields the highest fitness value. In a complete program execution comprising 30 iterations, setting 4 is the most favorable, resulting in a final population fitness average of 0.145.

## **Q6:**

Setting 1 hit Count and it corresponding percentage

Hit count	0	0	0	0
Percentage (%)	0	0	0	0

Setting 2 hit Count and it corresponding percentage

Hit count	3	1	1	10
Percentage (%)	14	3.3	3.3	3

## Setting 3 hit Count and it corresponding percentage

Hit count	30	0	0	0
Percentage (%)	100	0	0	0

## Setting 4 hit Count and it corresponding percentage

	1	<u> </u>		
Hit count	30	0	0	0
Percentage (%)	100	0	0	0

#### Setting 5 hit Count and it corresponding percentage

	<u> </u>	<u> </u>		
Hit count	30	0	0	0
Percentage (%)	100	0	0	0

## Setting 6 hit Count and it corresponding percentage

Hit count	30	0	0	0
Percentage (%)	100	0	0	0

#### **Q7**

#### - Crossover operator

the crossover operator is used to generate offsets inheriting from the parents individuals. The chromosomes of the parents get mixed to generate offspring. It exchange genetic material beyond a certain point in the solution between two individuals. The crossover point is determined based on the condition that the elements in **ind1** up to a certain position are not present in the remaining part of **ind2**. This helps create diverse offspring while preserving certain characteristics from both parents. The specific technique used here is a form of order crossover.

#### - Mutation operator

The purpose of the mutation operator is to introduce stochastic changes to an individual's genetic representation (solution) with a certain probability **indpb**. This is done to explore new search spaces and maintain diversity in the population. It also introduce randomness into the population. This helps the algorithm explore different regions of the solution space and potentially find better solutions. The mutation probability **indpb** controls the likelihood of mutation for each element in the individual's solution.

### - Selection operator

selection operation create new generation of individuals. The selected individuals are likely to have better fitness values, and they will be used for crossover and mutation operations to generate the next generation of individuals. The purpose of this selection operation is to favor individuals with better fitness while introducing some randomness to maintain diversity in the population.