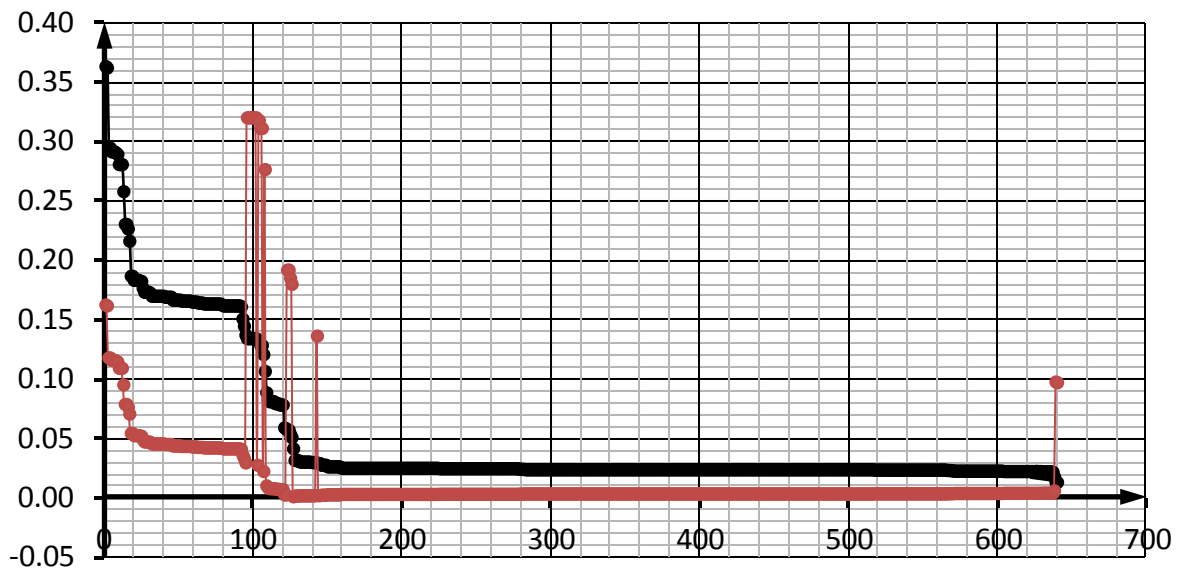
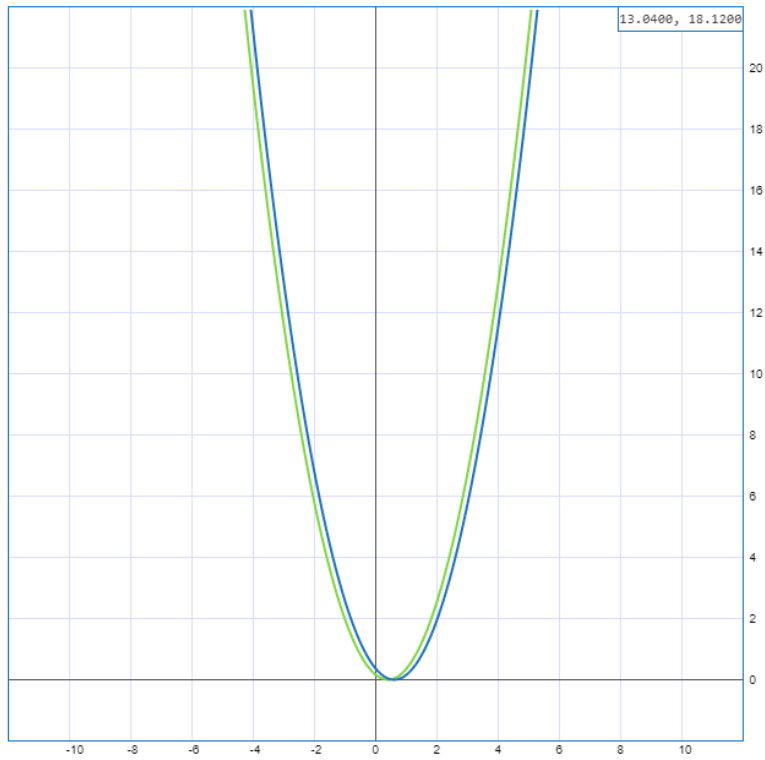




```
#include <iostream>

#include <fstream>

#include <time.h>

using namespace std;

int main()
```

```

{
    srand(time(NULL));
    ofstream FILE = ofstream("1.txt", ios::out);
    int mask, ditribution = 50, max = 0, avarage, tmp;
    int *parents = new int[20], *chilDes = new int[20];
    for (short i = 0; i < 20; i++)
        parents[i] = rand() % 1024;
    bool check = false;
    for (int m = 0; !check && m < 1000; m++)
    {
        max = avarage = 0;
        for (short k = 0; k < 20; k++)
        {
            short m = rand() % 20, n = rand() % 20;
            mask = 0;
            for (short i = 0; i < 10; i++)
                mask |= ((rand() % 100) < ditribution) << i;
            chilDes[k] = (parents[m] & mask) + (parents[n] & (~mask));
            tmp = 0;

        }
        check = true;
        for (short i = 0; i < 18; i++)
            check &= (chilDes[i] == chilDes[i + 1]);
        for (short i = 0; i < 20; i++)
        {
            for (short j = 9; j >= 0; j--)
                FILE << ((chilDes[i] >> j) & 1);

            float Y1 = (chilDes[i] / 1000. - 0.4) * (chilDes[i] / 1000. - 0.4);
            float Y2 = (chilDes[i] / 1000. - 0.6) * (chilDes[i] / 1000. - 0.6);
            FILE << ' ' << Y1 << ' ' << Y2 << '\n';
        }
    }
}

```

```

    }

    FILE << "-----\n";

    int* swap = parents;

    parents = childe;

    childe = swap;

}

return 0;

}

```

N	DEC	BIN	Y1	Y2
1	0.907	1111101010	0.362404	0.161604
2	0.171	1111101001	0.361201	0.160801
3	0.879	1110101110	0.293764	0.116964
4	0.864	1110101110	0.293764	0.116964
5	0.572	1110101011	0.290521	0.114921
6	0.554	1110101011	0.290521	0.114921
7	0.819	1110101011	0.290521	0.114921
8	0.827	1110101010	0.289444	0.114244
9	0.075	1110101001	0.288369	0.113569
10	0.696	1110100001	0.279841	0.108241
11	0.554	1110100001	0.279841	0.108241
12	0.641	1110100001	0.279841	0.108241
13	0.769	1110001011	0.257049	0.094249
14	0.827	1101101111	0.229441	0.077841
15	0.826	1101101111	0.229441	0.077841
16	0.435	1101101011	0.225625	0.075625
17	0.875	1101100000	0.215296	0.069696
18	0.529	1100111111	0.185761	0.053361
19	0.443	1100111111	0.185761	0.053361
20	0.507	1100111011	0.182329	0.051529
21	0.232	1100111011	0.182329	0.051529
22	0.81	1100111011	0.182329	0.051529
23	0.57	1100111011	0.182329	0.051529
24	0.929	1100111010	0.181476	0.051076
25	0.559	1100111010	0.181476	0.051076
26	0.435	1100110011	0.175561	0.047961
27	0.556	1100101111	0.172225	0.046225
28	0.601	1100101111	0.172225	0.046225

29	0.827	1100101111	0.172225	0.046225
30	0.787	1100101111	0.172225	0.046225
31	0.291	1100101110	0.171396	0.045796
32	0.57	1100101011	0.168921	0.044521
33	0.563	1100101011	0.168921	0.044521
34	0.569	1100101011	0.168921	0.044521
35	0.29	1100101011	0.168921	0.044521
36	0.419	1100101011	0.168921	0.044521
37	0.879	1100101011	0.168921	0.044521
38	0.779	1100101011	0.168921	0.044521
39	0.571	1100101011	0.168921	0.044521
40	0.554	1100101011	0.168921	0.044521
41	0.555	1100101010	0.1681	0.0441
42	1.001	1100101010	0.1681	0.0441
43	0.571	1100101010	0.1681	0.0441
44	0.746	1100101010	0.1681	0.0441
45	0.563	1100101010	0.1681	0.0441
46	0.639	1100100111	0.165649	0.042849
47	1.002	1100100111	0.165649	0.042849
48	0.554	1100100111	0.165649	0.042849
49	0.163	1100100111	0.165649	0.042849
50	0.571	1100100111	0.165649	0.042849
51	0.826	1100100111	0.165649	0.042849
52	0.929	1100100110	0.164836	0.042436
53	0.299	1100100110	0.164836	0.042436
54	0.803	1100100110	0.164836	0.042436
55	0.571	1100100110	0.164836	0.042436
56	0.807	1100100110	0.164836	0.042436
57	0.815	1100100110	0.164836	0.042436
58	0.552	1100100110	0.164836	0.042436
59	0.177	1100100101	0.164025	0.042025
60	0.315	1100100101	0.164025	0.042025
61	0.575	1100100101	0.164025	0.042025
62	0.559	1100100101	0.164025	0.042025
63	0.554	1100100100	0.163216	0.041616
64	0.571	1100100100	0.163216	0.041616
65	0.803	1100100100	0.163216	0.041616
66	0.555	1100100100	0.163216	0.041616
67	0.811	1100100011	0.162409	0.041209
68	0.425	1100100011	0.162409	0.041209
69	0.763	1100100011	0.162409	0.041209
70	0.929	1100100011	0.162409	0.041209
71	0.831	1100100011	0.162409	0.041209
72	0.035	1100100011	0.162409	0.041209
73	0.163	1100100011	0.162409	0.041209
74	0.937	1100100011	0.162409	0.041209

75	0.552	1100100011	0.162409	0.041209
76	0.555	1100100011	0.162409	0.041209
77	0.043	1100100011	0.162409	0.041209
78	0.805	1100100011	0.162409	0.041209
79	0.554	1100100010	0.161604	0.040804
80	0.555	1100100001	0.160801	0.040401
81	0.555	1100100001	0.160801	0.040401
82	0.551	1100100001	0.160801	0.040401
83	0.571	1100100001	0.160801	0.040401
84	0.827	1100100001	0.160801	0.040401
85	0.555	1100100001	0.160801	0.040401
86	0.555	1100100001	0.160801	0.040401
87	0.547	1100100001	0.160801	0.040401
88	0.68	1100100001	0.160801	0.040401
89	0.811	1100100001	0.160801	0.040401
90	0.555	1100100001	0.160801	0.040401
91	0.035	1100100001	0.160801	0.040401
92	0.814	1100100000	0.16	0.04
93	0.57	1100010011	0.149769	0.034969
94	0.554	1100001011	0.143641	0.032041
95	0.567	1100000001	0.136161	0.028561
96	0.939	1011111011	0.133225	0.319225
97	0.831	1011101010	0.133225	0.319225
98	0.568	1010111000	0.133225	0.319225
99	0.575	1010101110	0.133225	0.319225
100	0.683	1010101011	0.133225	0.319225
101	0.939	1010101011	0.133225	0.319225
102	0.551	1010101011	0.133225	0.319225
103	0.035	1010101011	0.131769	0.026569
104	0.563	1010101000	0.131769	0.316969
105	0.938	1010101000	0.127449	0.310249
106	0.555	1010101000	0.127449	0.310249
107	0.68	1010100110	0.119716	0.021316
108	0.547	1010100110	0.105625	0.275625
109	0.553	1010100110	0.087616	0.009216
110	0.678	1010000001	0.081796	0.007396
111	0.555	1001111111	0.080089	0.006889
112	0.555	1001011001	0.080089	0.006889
113	0.555	1000111111	0.080089	0.006889
114	0.575	1000111111	0.080089	0.006889
115	0.554	1000111111	0.0784	0.0064
116	0.035	1000111100	0.0784	0.0064
117	0.571	1000111011	0.0784	0.0064
118	0.554	1000111011	0.077284	0.006084
119	0.815	1000111011	0.077284	0.006084
120	0.939	1000111011	0.077284	0.006084

121	0.68	1000111011	0.058081	0.001681
122	0.555	1000111011	0.057121	0.001521
123	0.552	1000111011	0.056169	0.190969
124	0.683	1000111010	0.056169	0.190969
125	0.559	1000111010	0.052441	0.184041
126	0.815	1000111010	0.049729	0.178929
127	0.555	1000111001	0.040401	1.00E-06
128	0.555	1000111000	0.030625	0.000625
129	0.043	1000110111	0.030625	0.000625
130	0.555	1000110011	0.030625	0.000625
131	0.686	1000110011	0.029584	0.000784
132	0.554	1000110011	0.029241	0.000841
133	0.942	1000110011	0.029241	0.000841
134	0.555	1000101111	0.029241	0.000841
135	0.678	1000101111	0.029241	0.000841
136	0.551	1000101111	0.029241	0.000841
137	0.555	1000101111	0.029241	0.000841
138	0.035	1000101111	0.029241	0.000841
139	0.563	1000101111	0.0289	0.0009
140	0.555	1000101111	0.0289	0.0009
141	0.683	1000101111	0.0289	0.0009
142	0.942	1000101111	0.028561	0.000961
143	0.555	1000101100	0.028224	0.135424
144	0.554	1000101011	0.028224	0.001024
145	0.555	1000101011	0.027889	0.001089
146	0.555	1000101011	0.026569	0.001369
147	0.554	1000101011	0.026569	0.001369
148	0.553	1000101011	0.026569	0.001369
149	0.55	1000101011	0.026569	0.001369
150	0.291	1000101011	0.025281	0.001681
151	0.555	1000101011	0.025281	0.001681
152	0.035	1000101011	0.025281	0.001681
153	0.678	1000101011	0.025281	0.001681
154	0.555	1000101011	0.025281	0.001681
155	0.555	1000101011	0.025281	0.001681
156	0.815	1000101011	0.025281	0.001681
157	0.555	1000101011	0.025281	0.001681
158	0.559	1000101011	0.025281	0.001681
159	0.555	1000101011	0.024336	0.001936
160	0.546	1000101011	0.024025	0.002025
161	0.555	1000101011	0.024025	0.002025
162	0.554	1000101011	0.024025	0.002025
163	0.546	1000101011	0.024025	0.002025
164	0.683	1000101011	0.024025	0.002025
165	0.547	1000101011	0.024025	0.002025
166	0.555	1000101011	0.024025	0.002025

167	0.555	1000101011	0.024025	0.002025
168	0.555	1000101011	0.024025	0.002025
169	0.554	1000101011	0.024025	0.002025
170	0.289	1000101011	0.024025	0.002025
171	0.554	1000101011	0.024025	0.002025
172	0.035	1000101011	0.024025	0.002025
173	0.555	1000101011	0.024025	0.002025
174	0.555	1000101011	0.024025	0.002025
175	0.547	1000101011	0.024025	0.002025
176	0.559	1000101011	0.024025	0.002025
177	0.811	1000101011	0.024025	0.002025
178	0.546	1000101011	0.024025	0.002025
179	0.554	1000101011	0.024025	0.002025
180	0.554	1000101011	0.024025	0.002025
181	0.555	1000101011	0.024025	0.002025
182	0.555	1000101011	0.024025	0.002025
183	0.555	1000101011	0.024025	0.002025
184	0.801	1000101011	0.024025	0.002025
185	0.554	1000101011	0.024025	0.002025
186	0.555	1000101011	0.024025	0.002025
187	0.554	1000101011	0.024025	0.002025
188	0.037	1000101011	0.024025	0.002025
189	0.555	1000101011	0.024025	0.002025
190	0.546	1000101011	0.024025	0.002025
191	0.81	1000101011	0.024025	0.002025
192	0.554	1000101011	0.024025	0.002025
193	0.8	1000101011	0.024025	0.002025
194	0.554	1000101011	0.024025	0.002025
195	0.546	1000101011	0.024025	0.002025
196	0.555	1000101011	0.024025	0.002025
197	0.555	1000101011	0.024025	0.002025
198	0.554	1000101011	0.024025	0.002025
199	0.811	1000101011	0.024025	0.002025
200	0.555	1000101011	0.024025	0.002025
201	0.555	1000101011	0.024025	0.002025
202	0.555	1000101011	0.024025	0.002025
203	0.546	1000101011	0.024025	0.002025
204	0.554	1000101011	0.024025	0.002025
205	0.555	1000101011	0.024025	0.002025
206	0.546	1000101011	0.024025	0.002025
207	0.554	1000101011	0.024025	0.002025
208	0.554	1000101011	0.024025	0.002025
209	0.555	1000101010	0.024025	0.002025
210	0.811	1000101010	0.024025	0.002025
211	0.555	1000101010	0.024025	0.002025
212	0.803	1000101010	0.024025	0.002025

213	0.555	1000101010	0.024025	0.002025
214	0.554	1000101010	0.024025	0.002025
215	0.803	1000101010	0.024025	0.002025
216	0.555	1000101010	0.024025	0.002025
217	0.547	1000101010	0.024025	0.002025
218	0.555	1000101010	0.024025	0.002025
219	0.546	1000101010	0.024025	0.002025
220	0.549	1000101010	0.024025	0.002025
221	0.554	1000101010	0.024025	0.002025
222	0.803	1000101010	0.024025	0.002025
223	0.546	1000101010	0.024025	0.002025
224	0.555	1000101010	0.024025	0.002025
225	0.811	1000101010	0.023716	0.002116
226	0.81	1000101010	0.023716	0.002116
227	0.554	1000101010	0.023716	0.002116
228	0.546	1000101010	0.023716	0.002116
229	0.555	1000101010	0.023716	0.002116
230	0.554	1000101010	0.023716	0.002116
231	0.554	1000101010	0.023716	0.002116
232	0.555	1000101010	0.023716	0.002116
233	0.555	1000101010	0.023716	0.002116
234	0.546	1000101010	0.023716	0.002116
235	0.545	1000101010	0.023716	0.002116
236	0.811	1000101010	0.023716	0.002116
237	0.551	1000101010	0.023716	0.002116
238	0.548	1000101010	0.023716	0.002116
239	0.554	1000101010	0.023716	0.002116
240	0.554	1000101010	0.023716	0.002116
241	0.554	1000101010	0.023716	0.002116
242	0.551	1000101010	0.023716	0.002116
243	0.554	1000101010	0.023716	0.002116
244	0.554	1000101010	0.023716	0.002116
245	0.554	1000101010	0.023716	0.002116
246	0.555	1000101010	0.023716	0.002116
247	0.546	1000101010	0.023716	0.002116
248	0.554	1000101010	0.023716	0.002116
249	0.548	1000101010	0.023716	0.002116
250	0.546	1000101010	0.023716	0.002116
251	0.555	1000101010	0.023716	0.002116
252	0.545	1000101010	0.023716	0.002116
253	0.803	1000101010	0.023716	0.002116
254	0.554	1000101010	0.023716	0.002116
255	0.547	1000101010	0.023716	0.002116
256	0.803	1000101010	0.023716	0.002116
257	0.554	1000101010	0.023716	0.002116
258	0.554	1000101010	0.023716	0.002116

259	0.555	1000101010	0.023716	0.002116
260	0.554	1000101010	0.023716	0.002116
261	0.806	1000101010	0.023716	0.002116
262	0.55	1000101001	0.023716	0.002116
263	0.801	1000101001	0.023716	0.002116
264	0.555	1000101000	0.023716	0.002116
265	0.554	1000101000	0.023716	0.002116
266	0.555	1000101000	0.023716	0.002116
267	0.803	1000100111	0.023716	0.002116
268	0.547	1000100111	0.023716	0.002116
269	0.546	1000100111	0.023716	0.002116
270	0.555	1000100111	0.023716	0.002116
271	0.554	1000100111	0.023716	0.002116
272	0.554	1000100111	0.023716	0.002116
273	0.546	1000100111	0.023716	0.002116
274	0.554	1000100111	0.023716	0.002116
275	0.554	1000100111	0.023716	0.002116
276	0.544	1000100111	0.023716	0.002116
277	0.559	1000100111	0.023716	0.002116
278	0.554	1000100111	0.023409	0.002209
279	0.559	1000100111	0.023409	0.002209
280	0.811	1000100111	0.023104	0.002304
281	0.555	1000100111	0.023104	0.002304
282	0.547	1000100111	0.023104	0.002304
283	0.55	1000100111	0.022801	0.002401
284	0.554	1000100111	0.022801	0.002401
285	0.546	1000100111	0.022801	0.002401
286	0.546	1000100111	0.022801	0.002401
287	0.555	1000100111	0.022801	0.002401
288	0.554	1000100111	0.022801	0.002401
289	0.547	1000100111	0.022801	0.002401
290	0.554	1000100111	0.022801	0.002401
291	0.55	1000100111	0.022801	0.002401
292	0.559	1000100111	0.022801	0.002401
293	0.803	1000100111	0.022801	0.002401
294	0.811	1000100111	0.022801	0.002401
295	0.559	1000100111	0.022801	0.002401
296	0.545	1000100111	0.022801	0.002401
297	0.554	1000100111	0.022801	0.002401
298	0.801	1000100111	0.022801	0.002401
299	0.81	1000100111	0.022801	0.002401
300	0.546	1000100111	0.022801	0.002401
301	0.546	1000100111	0.022801	0.002401
302	0.547	1000100111	0.022801	0.002401
303	0.803	1000100111	0.022801	0.002401
304	0.55	1000100111	0.022801	0.002401

305	0.547	1000100111	0.022801	0.002401
306	0.547	1000100111	0.022801	0.002401
307	0.554	1000100111	0.022801	0.002401
308	0.801	1000100111	0.022801	0.002401
309	0.81	1000100111	0.022801	0.002401
310	0.551	1000100111	0.022801	0.002401
311	0.547	1000100111	0.022801	0.002401
312	0.55	1000100111	0.022801	0.002401
313	0.546	1000100111	0.022801	0.002401
314	0.547	1000100111	0.022801	0.002401
315	0.546	1000100111	0.022801	0.002401
316	0.554	1000100111	0.022801	0.002401
317	0.555	1000100111	0.022801	0.002401
318	0.551	1000100111	0.022801	0.002401
319	0.545	1000100111	0.022801	0.002401
320	0.551	1000100111	0.022801	0.002401
321	0.551	1000100111	0.022801	0.002401
322	0.545	1000100111	0.022801	0.002401
323	0.803	1000100111	0.022801	0.002401
324	0.551	1000100111	0.022801	0.002401
325	0.546	1000100111	0.022801	0.002401
326	0.547	1000100111	0.022801	0.002401
327	0.546	1000100111	0.022801	0.002401
328	0.555	1000100111	0.022801	0.002401
329	0.551	1000100111	0.022801	0.002401
330	0.55	1000100111	0.022801	0.002401
331	0.551	1000100111	0.022801	0.002401
332	0.801	1000100111	0.022801	0.002401
333	0.555	1000100111	0.022801	0.002401
334	0.801	1000100111	0.022801	0.002401
335	0.555	1000100111	0.022801	0.002401
336	0.801	1000100111	0.022801	0.002401
337	0.551	1000100111	0.022801	0.002401
338	0.55	1000100111	0.022801	0.002401
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