Артём Михеев

Проект 3. Экспериментальная математика.

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```
def связный(g):
    s = set()
    for i in g[0]:
        s = s.union(g[i])
    if s==set(range(len(g))):
        return True
    else:
        return False
```

```
for i in range(101):
    p = i/100
    n = 0
    for j in range(1000):
        if связный(G(10,p)):
            n+=1
    print("%.3f, %0.4f" % (p,n/1000) )
```

```
0.000, 0.0000
0.010, 0.0000
0.020, 0.0000
0.030, 0.0000
0.040, 0.0000
0.050, 0.0000
0.060, 0.0000
0.070, 0.0000
0.080, 0.0000
0.090, 0.0000
0.100, 0.0000
0.110, 0.0000
0.120, 0.0000
0.130, 0.0000
0.140, 0.0000
0.150, 0.0000
0.160, 0.0000
0.170, 0.0010
0.180, 0.0010
0.190, 0.0010
0.200, 0.0040
0.210, 0.0010
0.220, 0.0060
0.230, 0.0070
0.240, 0.0070
0.250, 0.0150
0.260, 0.0130
0.270, 0.0140
0.280, 0.0270
0.290, 0.0290
0.300, 0.0390
0.310, 0.0460
0.320, 0.0620
0.330, 0.0720
0.340, 0.0720
0.350, 0.1100
0.360, 0.1230
0.370, 0.1490
0.380, 0.1530
0.390, 0.1880
0.400, 0.2220
0.410, 0.2540
0.420, 0.2240
0.430, 0.3020
```

```
0.440, 0.3090
0.450, 0.3750
0.460, 0.3640
0.470, 0.4350
0.480, 0.4410
0.490, 0.5140
0.500, 0.5290
0.510, 0.5530
0.520, 0.6030
0.530, 0.6290
0.540, 0.6660
0.550, 0.6770
0.560, 0.7210
0.570, 0.7560
0.580, 0.8010
0.590, 0.8060
0.600, 0.8340
0.610, 0.8440
0.620, 0.8730
0.630, 0.8690
0.640, 0.8940
0.650, 0.9060
0.660, 0.9410
0.670, 0.9380
0.680, 0.9370
0.690, 0.9520
0.700, 0.9770
0.710, 0.9700
0.720, 0.9830
0.730, 0.9840
0.740, 0.9910
0.750, 0.9910
0.760, 0.9920
0.770, 0.9970
0.780, 0.9960
0.790, 0.9990
0.800, 0.9980
0.810, 0.9980
0.820, 0.9990
0.830, 0.9990
0.840, 1.0000
0.850, 1.0000
0.860, 1.0000
0.870, 1.0000
0.880, 1.0000
0.890, 1.0000
0.900, 1.0000
0.910, 1.0000
0.920, 1.0000
0.930, 1.0000
0.940, 1.0000
0.950, 1.0000
0.960, 1.0000
0.970, 1.0000
0.980, 1.0000
0.990, 1.0000
1.000, 1.0000
```