```
p2[n_{,k_{]} := Sum[(-1)^{(k-j)} Binomial[k, j] pp[n, j], {j, 0, k}]
lLinnik[n_] := Sum[(-1)^(k+1)/kp2[n,k], {k, 1, Log[2, n]}]
2
            1
                       0
       \frac{1}{2}
                            \frac{1}{2}
3
            1
                       0
4
            1
5
            1
                       0
6
                            0
            1
7
            1
                       0
8
            1
                       0
                            \frac{1}{2}
9
            1
                       0
10
                            0
            1
                       2
                       0
11
            1
                       \frac{1}{2}
                            0
12
            1
13
            1
                       0
14
                            0
            1
15
                            0
            1
                       2
                            \frac{1}{2}
16
                       0
            1
       \frac{1}{2}
                  \frac{1}{2}
                            \frac{1}{2}
17
                       0
            1
18
            1
                            0
                       2
19
                       0
            1
                       1
20
                            0
            1
                       2
                       \frac{1}{2}
21
            1
                            0
22
            1
                            0
                       2
23
            1
                       0
24
                            0
            1
                       2
25
                       0
            1
26
            1
                            0
                       2
27
                       0
            1
28
                            0
            1
                       2
29
                       0
            1
                       3
                            0
30
            1
31
            1
                       0
32
                       0
            1
                       \frac{1}{2}
33
            1
                            0
       4
                       \frac{1}{2}
34
                       \frac{1}{2}
35
            1
                            0
```

 $pp[n_{-}, z_{-}] := Product[z/a!, \{p, FI[n]\}]; FI[n_{-}] := FactorInteger[n]; FI[1] := \{\}$

	-		-	_	
37	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
38	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
39	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
40	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
41	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
42	1	1	1	$\frac{3}{4}$	0
43	8	1	8	0	$\frac{1}{2}$
44		1		$\frac{1}{2}$	0
45	$\frac{4}{\frac{1}{4}}$	1	$\frac{4}{\frac{1}{4}}$	$\frac{2}{\frac{1}{2}}$	0
46	$\frac{4}{\frac{1}{4}}$	1	1	$\frac{2}{\frac{1}{2}}$	0
47	1	1	4 1	0	$\frac{1}{2}$
48	$\frac{1}{4}$	1	1 4	$\frac{1}{2}$	0
49	1	1	1	0	$\frac{1}{2}$
50	$\frac{1}{4}$	1	$\frac{-2}{4}$	$\frac{1}{2}$	0
51	$\frac{4}{\frac{1}{4}}$	1	4	$\frac{2}{\frac{1}{2}}$	0
52	1 4	1	$\begin{array}{c} \frac{1}{4} \\ \frac{1}{4} \end{array}$	2 1	0
	4 1	1	4 1	$\frac{1}{2}$	
53	$\frac{1}{2}$		$\frac{1}{2}$		$\frac{1}{2}$
54	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
55	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
56	1 4 1	1	$\frac{1}{4}$	1 2 1	0
57	1 4 1	1	$\frac{1}{4}$	1 2 1	0
58	1 4 1	1	$\frac{1}{4}$	$\frac{1}{2}$	0
59	$\frac{1}{2}$	1	$\frac{1}{2}$ $\frac{1}{8}$	0	$\frac{1}{2}$
60	1 8	1	8	$\frac{3}{4}$	0
61	$\frac{\frac{1}{2}}{\frac{1}{4}}$	1	$\frac{\frac{1}{2}}{\frac{1}{4}}$	0	$\frac{1}{2}$
62	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
63	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
64	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
65	$\frac{1}{4}$	1	$\frac{1}{4}$	1 2	0
66	1 8	1	1 8	$\frac{3}{4}$	0
67	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
68	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
69	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
70	1/8	1	1 8	$\frac{1}{2}$ $\frac{3}{4}$	0
71	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
72	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
73	1	1	1	0	$\frac{1}{2}$
74	$\frac{2}{4}$	1	$\frac{2}{4}$	$\frac{1}{2}$	0
75	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
	4		4	2	

76	1 4 1 4	1	$\frac{1}{4}$	$\frac{1}{2}$	0
77	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
78	1 8	1	<u>1</u> 8	$\begin{array}{c} \frac{1}{2} \\ \frac{3}{4} \end{array}$	0
79	$\frac{1}{2}$	1	1 2	0	$\frac{1}{2}$
80	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
81	$\frac{1}{2}$	1	$\frac{1}{4}$ $\frac{1}{2}$	0	$\frac{1}{2}$
82	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
83	$\frac{1}{2}$	1	$ \begin{array}{c} \frac{1}{4} \\ \frac{1}{2} \\ \frac{1}{8} \end{array} $	0	$\frac{1}{2}$
84	$\frac{1}{8}$	1	1 8	$\frac{3}{4}$	0
85	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
86	$\frac{1}{4}$	1	$ \begin{array}{r} \frac{1}{4} \\ \frac{1}{4} \\ \frac{1}{4} \\ \frac{1}{4} \end{array} $	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	0
87	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
88	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
89	$\frac{1}{2}$	1	$\frac{1}{2}$	0	$\frac{1}{2}$
90	$\frac{1}{8}$	1	1 8	$\frac{3}{4}$	0
91	$\frac{1}{4}$	1	$\begin{array}{c} \frac{1}{8} \\ \frac{1}{4} \end{array}$	1/2	0
92	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$ $\frac{1}{2}$	0
93	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
94	$\frac{1}{4}$	1	1/4	$\frac{\frac{1}{2}}{\frac{1}{2}}$	0
95	$\frac{1}{4}$	1	$\begin{array}{c} \frac{1}{4} \\ \frac{1}{4} \end{array}$	$\frac{1}{2}$	0
96	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
97	$\frac{1}{2}$	1	1 2	0	$\frac{1}{2}$
98	1 4 1 2 1 4 1 1 2 1 8 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	1	$\frac{1}{2}$ $\frac{1}{4}$	$\frac{1}{2}$	0
99	1/4	1	$\frac{1}{4}$	$\frac{1}{2}$	0
100	$\frac{1}{4}$	1	$\frac{1}{4}$	$\frac{1}{2}$	0
	-		-	_	

 $PI[n_{,k_{-}}] := Sum[ll[j, 1] (1/k-PI[Floor[n/j], k+1]), {j, 2, n}]$ DiscretePlot[PI[n, 1], {n, 2, 100}]

