$$\begin{split} &f[n_-,\ k_-] := Sum[\ (-1)\ ^(j+1)\ f[n\ /\ j,\ k-1]\ ,\ \{j,\ 2,\ n\}]\ ;\ f[n_-,\ 0] := 1 \\ &lin[n_-] := Sum[\ (-1)\ ^(k+1)\ /\ k\ f[n,k]\ ,\ \{k,\ 1,\ Log[2,\ n]\}] \end{split}$$

 ${\tt Table[\ \{n,\ lin[n]\ -lin[n-1]\},\ \{n,\ 2,\ 100\}]\ //\ TableForm}$

- 2 -1 3 1
- $-\frac{3}{2}$
- 5 1
- *-* -
- 6 0 7 1
- 8 7
- 9 1
- 10 0
- 11 1
- 12 0
- 13 1
- 14 0
- 15 0
- $-\frac{15}{4}$
- 17 1
- 18 0
- 10 (
- 19 1 20 0
- 21 0
- 22 0
- 23 1
- 24 0
- $\frac{1}{2}$
- 26 0
- $\frac{1}{3}$
- 28 0
- 29 1
- 30 0
- 31 1
- $-\frac{32}{5}$
- 33 0
- 34 0
- 35 0

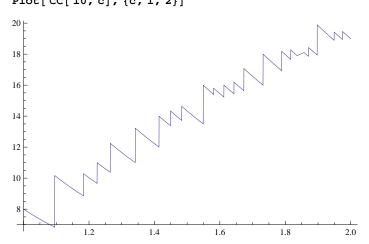
1

0

- 36 0
- 37
- 38
- 39 0
- 40 0
- 41 1
- 42 0 43 1
- 44 0
- 45 0
- 46 0
- 47 1
- 48 0
- 49

50 51	_ 0 0
52	0
53	1
54	0
55	0
56	0
57	0
57 58	0
59	1
60	0
61	1
62	0
63	0
64	$-\frac{21}{2}$
65	0
66	0
67	1
68	0
69	0
70	0
71	1
72	0
73	1
74	0
75	0
75 76 77 78 79	0
77	0
78	0
79	1
80	0
81	$\frac{1}{4}$
82	$\frac{-4}{4}$ 0
83	1
84	0
85	0
86	0
87	0
88	0
89	1
90	0
91	0
92	0
93	0
94	0
95	0
96	0
97	1
98	0
99	0

```
2 (1/c^2) Sum[1, {j, 1, c}, {k, 1, Floor[c^2n/j]}] + Sum[1, {j, 1, c}, {k, 1, c}]
Plot[CC[10, c], {c, 1, 2}]
```



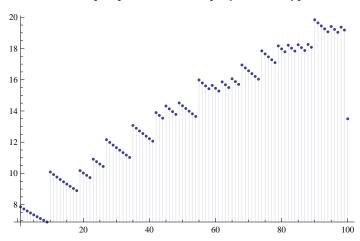
 $Sum[CC[100., 1 + cc * .001] - CC[100., 1 + (cc - 1) * .001], {cc, 1, 3000}]$

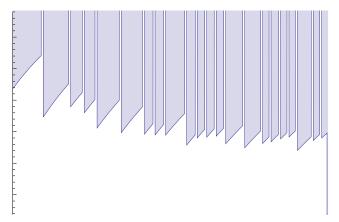
70.625

CC[100, 4.] - CC[100, 1]

70.625

DiscretePlot[CC[10, 1 + c * .01], {c, 1, 100}]





Table[$\{10.*(1+c/300.), CC[10., 1+c/300.] - CC[10, 1+(c-1)/300]\}, \{c, 1, 300\}]$ //TableForm

```
10.0333
        -0.0464344
10.0667
          -0.0459739
10.1
          -0.0455194
10.1333
          -0.045071
10.1667
          -0.0446284
10.2
          -0.0441915
10.2333
         -0.0437604
10.2667
        -0.0433349
          -0.0429148
          -0.0425002
10.3333
          -0.0420909
10.3667
10.4
          -0.0416868
10.4333
          -0.0412879
10.4667
          -0.040894
10.5
          -0.0405052
          -0.0401213
10.5333
10.5667
          -0.0397422
10.6
          -0.0393678
10.6333
        -0.0389982
10.6667
        -0.0386331
10.7
          -0.0382727
10.7333
          -0.0379166
10.7667
          -0.037565
          -0.0372177
10.8
10.8333
          -0.0368747
10.8667
          -0.0365359
10.9
          -0.0362012
10.9333
          -0.0358706
10.9667
          3.29037
          -0.0553479
11.
11.0333
        -0.054847
11.0667
        -0.0543521
11.1
          -0.0538632
11.1333
          -0.0533801
11.1667
          -0.0529028
11.2
          -0.0524312
11.2333
        -0.0519651
```

13. 13.0333

13.1

-0.0544106

-0.0535831

13.0667 - 0.0539947

13.1333	-0.0531756
13.1667	-0.0527722
13.2	-0.0523729
13.2333	-0.0519777
13.2667	-0.0515864
13.3	-0.0513001
13.3333	-0.0508155
	-0.0504358
13.4	-0.0500599
13.4333	2.16694
13.4667	-0.060279
13.5	-0.059833
13.5333	-0.0593915
13.5667	-0.0589542
13.6	-0.0585213
13.6333	-0.0580925
13.6667	-0.057668
13.7	-0.0572476
13.7333	-0.0568312
13.7667	-0.0564189
13.8	-0.0560106
13.8333	-0.0556062
13.8667	-0.0552056
13.9	-0.0548089
13.9333	-0.054416
13.9667	-0.0540269
14.	-0.0536415
14.0333	-0.0532597
14.0667	-0.0528815
14.1	-0.0525069
14.1333	-0.0521358
14.1667	1.94131
14.2	-0.0607503
14.2333	-0.060324
14.2667	-0.0599016
14.3	-0.0594832
14.3333	-0.0590687
14.3667	-0.058658
14.4	-0.0582512
14.4333	-0.057848
14.4667	-0.0574486
14.5	0.894196
14.5333	-0.0610193
14.5667	-0.0606009
14.6	-0.0601863
14.6333	-0.0597755
14.6667	-0.0593684
14.7	-0.0589649
14.7333	-0.0585652
14.7667	-0.058169
	-0.0577764
14.8	
14.8333	0.851589
14.8667	-0.0610733
14.9	-0.0606639
14.9333	-0.0602581
14.9667	-0.059856

15.	-0.0594574
15.0333	-0.0590623
15.0667	-0.0586707
15.1	-0.0582826
15.1333	-0.0578979
15.1667	-0.0575166
15.1007	-0.0573100
15.2333	-0.0571380
	-0.0567639
15.2667	
15.3	-0.0560243
15.3333	-0.0556594
15.3667	-0.0552975
15.4	-0.0549389
15.4333	-0.0545833
15.4667	-0.0542307
15.5	2.44352
15.5333	-0.0642417
15.5667	-0.0638294
15.6	-0.0634207
15.6333	-0.0630155
15.6667	-0.0626137
15.7	-0.0622153
15.7333	-0.0618203
15.7667	-0.0614286
15.8	-0.0610402
15.8333	0.338237
15.8667	-0.0619475
15.9	-0.0615583
15.9333	-0.0611723
15.9667	-0.0607896
16.	-0.0604101
16.0333	-0.0600337
16.0667	-0.0596604
16.1	-0.0592902
16.1333	0.709467
16.1667	-0.0617244
	-0.0617244
16.2	
16.2333	-0.0609663
16.2667	-0.0605918
16.3	-0.0602205
16.3333	-0.0598522
16.3667	-0.0594869
16.4	-0.0591245
16.4333	0.681826
16.4667	-0.0614039
16.5	-0.0610321
16.5333	-0.0606633
16.5667	-0.0602975
16.6	-0.0599347
16.6333	-0.0595747
16.6667	-0.0592176
16.7	-0.0588634
16.7333	1.37004
16.7667	-0.0638378
16.8	-0.0634582
16.8333	-0.0630816

10 7222	0.509912
18.7333	
18.7667	-0.0616929
18.8	-0.0613651
18.8333	-0.0610395
18.8667	-0.0607163
18.9	-0.0603953
18.9333	-0.0600766
18.9667	-0.0597601
19.	1.87961
19.0333	-0.0659197
19.0667	-0.0655743
19.1	-0.0652312
19.1333	-0.0648906
19.1667	-0.0645523
19.2	-0.0642164
19.2333	-0.0638828
19.2667	-0.0635515
19.3	-0.0632225
19.3333	-0.0628958
19.3667	-0.0625713
19.4	-0.0622491
19.4333	-0.061929
19.4667	-0.0616112
19.5	0.464674
19.5333	-0.0627755
19.5667	-0.062455
19.6	-0.0621366
19.6333	-0.0618204
19.6667	-0.0615063
19.7	-0.0611944
19.7333	-0.0608845
19.7667	0.451297
19.8	-0.0619931
19.8333	-0.0616808
19.8667	-0.0613706
19.9	-0.0610625
19.9333	-0.0607564
19.9667	-0.0604523
20.	-5.56015