```
ClearAll["Global`*"]
```

-10

```
vv := 7
K[n_{-}] := If[n = 1, 0, FullSimplify[MangoldtLambda[n] / Log[n]]]
K5[n_] := K[n] (1 - If[Mod[n, vv] == 0, n, 0])
K6[n_] := K[n] - If[Floor[Log[vv, n]] = Log[vv, n], n / Log[vv, n], 0]
P[n_{-}, 0] = 1;
P[n_{,k_{j}} := P[n, k] = Sum[K6[j]P[Floor[n/j], k-1], {j, 2, n}]
En[n_{-}] := En[n] = Sum[1/(k!)P[n,k], \{k, 0, Log[2, n]\}]
En[n_{x_{-}}, z_{-}] := En[n] = Sum[(z^k)/(k!)P[n,k], \{k, 0, Log[2, n]\}]
en[n_] := En[n] - En[n-1]
LAdd[n_] := Sum[vv^k/k, \{k, 1, Log[vv, n]\}]
LAdd2[n_] := Sum[(-1)^k vv^k, \{k, 1, Log[vv, n]\}]
PP[n_{,k_{|}} := PP[n, k] = Sum[1/k-PP[Floor[n/j], k+1], {j, 2, n}]
P[100, 1] + LAdd[100]
428
15
DiscretePlot[{P[n, 1]}, {n, 2, 100}]
 10
                                                    100
                     40
```

$\texttt{Table}[\{\texttt{n,en}[\texttt{n}]\},\,\{\texttt{n,2,50}\}] \;//\; \texttt{TableForm}$

- б

- 14 - 6
- 15 1

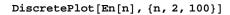
- - 6

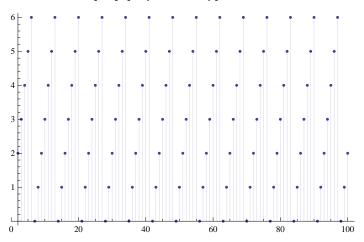
- 28 -6

- 6

- 42 6

- - 6





$\texttt{Table[} \; \{n, \; \texttt{En[n]} \; , \; \texttt{Mod[n, vv]} \} , \; \{n, 1, 100\}] \; \textit{//} \; \texttt{TableForm}$

36	71	1
37	72	2
38	73	3
		4
39	74	4
40	75	5
41	76	6
		0
42	84	0
43	85	1
		_
44	86	2
45	87	3
		4
46	88	
47	89	5
48	90	6
49	147	0
50	148	1
51	149	2
		4
52	150	3
53	151	4
54	152	5
55	153	6
56	161	
		0
57	162	1
58	163	2
59	164	3
60	165	4
61	166	5
62	167	6
63	175	0
64	176	1
65	177	2
		2
66	178	3
67	179	4
68	180	5
00		_
69	181	6
70	189	0
71		1
71	190	Т
72	191	2
73	192	3
74	193	4
75	194	5
76		
76	195	6
77	203	0
78	204	1
79	205	2
80	206	3
		4
81	207	
82	208	5
83	209	6
84	217	0
85	218	1
86	219	2
87	220	3
88	221	4
89	222	5
90	223	6
91	231	0

92	232	1
93	233	2
94	234	3
95	235	4
96	236	5
97	237	6
98	294	0
99	295	1
100	296	2

${\tt DiscretePlot[P[n, 1] - PP[n, 1] + LAdd[n], \{n, 2, 100\}]}$

