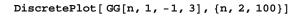
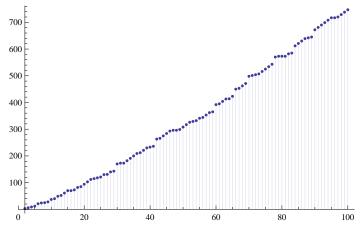
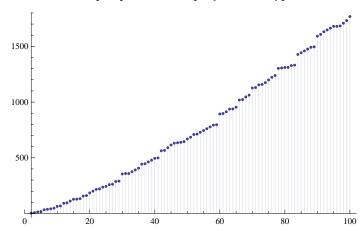
```
FF[n_{,k_{-}}] := FF[n,k] =
  If[MangoldtLambda[n] == 0, 0,
   If [MangoldtLambda[n]/Log[n] = 1, 1,
     N[If[Mod[N[Log[n] / MangoldtLambda[n]], 2] = 0,
        ({\tt MangoldtLambda[n] / Log[n]}) \; k, \; \; {\tt Abs[k] MangoldtLambda[n] / Log[n]]]]]
GG[n_{k_{1}}, k_{1}, a_{1}, s_{1}] :=
 GG[n, k, a, s] = Sum[sFF[j, a](1/(k!) + GG[Floor[n/j], k+1, a, s]), {j, 2, n}]
DiscretePlot[GG[n, 1, -1, 1], {n, 2, 100}]
60
50
40
30
20
10
Table[GG[n, 1, 0, 1], \{n, 2, 20\}]
{1, 2, 2.5, 3.5, 4.5, 5.5, 5.66667, 6.16667, 7.16667, 8.16667, 8.66667,
 9.66667, 10.6667, 11.6667, 11.7083, 12.7083, 13.2083, 14.2083, 14.7083}
DiscretePlot[GG[n, 1, -1, 2], {n, 2, 100}]
250
200
150
100
50
```

100

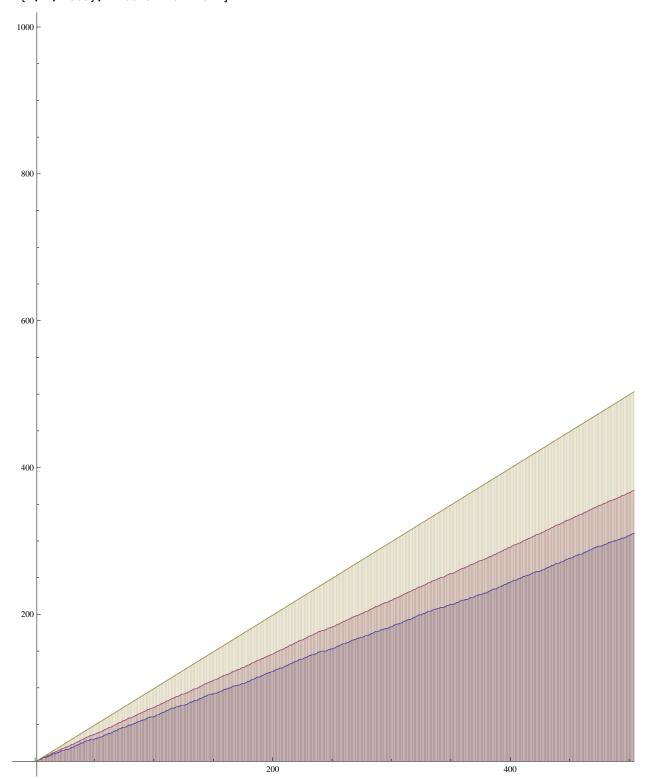


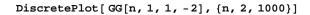


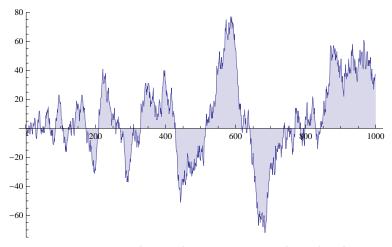
## DiscretePlot[GG[n, 1, -1, 4], {n, 2, 100}]



$$\begin{split} & \text{DiscretePlot}[~\{GG[n,\,1,\,-1,\,1]\,,~GG[n,\,1,\,0,\,1]\,,~GG[n,\,1,\,1,\,1]\,\}\,,\\ & \{n,\,2,\,1000\},~\texttt{ExtentSize} \to \texttt{Full}] \end{split}$$







93.6

 $\mathtt{HHH}[n_{-}] := \mathtt{HH}[n] - \mathtt{HH}[n-1]$ 

Table[HHH[n], {n, 2, 30}]

$$\left\{2,\,1,\,0,\,1,\,1,\,1,\,\frac{1}{3}\,,\,\frac{1}{2}\,,\,1,\,1,\,1,\,1,\,1,\,\frac{1}{2}\,,\,1,\,1,\,1,\,1,\,1,\,1,\,1,\,1,\,\frac{1}{2}\,,\,1,\,\frac{2}{3}\,,\,1,\,1,\,1\right\}$$

1 -3