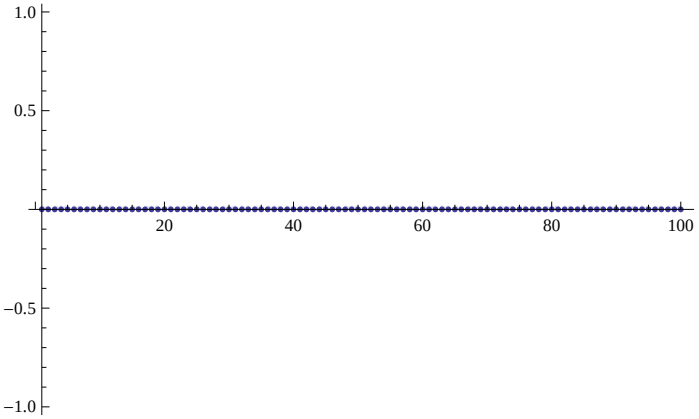
```
Clear[g1]
bin[z_, k_] := Product[z - j, {j, 0, k - 1}] / k!
FI[n_] := FactorInteger[n]; FI[1] := {}
dz[n_, z_] := dz[n, z] = Product[(-1)^p[[2]] Binomial[-z, p[[2]]], {p, FI[n]}]
g1[n_, k_] := g1[n, k] = Sum[ dz[a^2, 2] g1[Floor[n / a], k - 1], {a, 1, n}]
g1[n_, 0] := UnitStep[n - 1]
g2[n_, k_] := Sum[ (-1)^(k - j) bin[k, j] g1[n, j], {j, 0, k}]
lg[n_] := Sum[ (-1)^(k + 1) / k g2[n, k], {k, 1, Log2@n}]
kk[n_] := kk[n] = FullSimplify[MangoldtLambda[n] / Log[n]]
pr[n_, s_] := Sum[ kk[j] j^s, {j, 2, n}]
ts[n_] := 3 pr[n, 0] - pr[ n^(1 / 2), 0]

DiscretePlot[ lg[n] , {n, 1, 100}]
```




```
Clear[g1]
bin[z_, k_] := Product[z - j, {j, 0, k - 1}] / k!
FI[n_] := FactorInteger[n]; FI[1] := {}
dz[n_, z_] := dz[n, z] = Product[(-1)^p[[2]] Binomial[-z, p[[2]]], {p, FI[n]}]
g1[n_, k_] := g1[n, k] = Sum[ dz[a, 2] g1[Floor[n / a], k - 1], {a, 1, n}]
g1[n_, 0] := UnitStep[n - 1]
g2[n_, k_] := Sum[ (-1)^(k - j) bin[k, j] g1[n, j], {j, 0, k}]
lg[n_] := Sum[ (-1)^(k + 1) / k g2[n, k], {k, 1, Log2@n}]
kk[n_] := kk[n] = FullSimplify[MangoldtLambda[n] / Log[n]]
pr[n_, s_] := Sum[ kk[j] j^s, {j, 2, n}]
ts[n_] := 3 pr[n, 0] - pr[ n^(1 / 2), 0]
```

```
DiscretePlot[ lg[n] , {n, 1, 100}]
```