```
K[n_{-}] := If[n = 1, 0, FullSimplify[MangoldtLambda[n] / Log[n]]]
P[n_{,k_{j}}] := P[n,k] = Sum[K[j]P[Floor[n/j],k-1],{j,2,n}]; P[n_{,0}] := 1
Rd[n_] := Rd[n] = List@@NRoots[Dd[n, x] == 0, x][[All, 2]]
Dp[n_{, z_{]}} := Product[1-z/k, \{k, Rd[n]\}]
Rd[100]
\{-11.1997 - 12.3982 i, -11.1997 + 12.3982 i,
-2.67195 - 1.86184\,\dot{\mathtt{i}}, -2.67195 + 1.86184\,\dot{\mathtt{i}}, -0.933809, -0.0372047\}
Sum[-1/k, {k, Rd[100]}]
28.5333 + 0. i
Dp[100, 1]
100. + 1.77636 \times 10<sup>-15</sup> i
Dp[100, 2]
482. + 2.84217 \times 10<sup>-14</sup> i
Dp[100, 3]
1471. + 1.13687 \times 10<sup>-13</sup> i
Dp[100, -1]
1. +2.77556 \times 10^{-17} i
RootLocusPlot[1/Dd[96, x], \{k, 0, 1\}]
   -10
             -6
                               -5
                               -10
```