```
DD[n_] := DD[n] = Sum[If[ j == 1 || j == n, 0, 1], {j, Divisors[n]}]

DD[7]

0

DDD[n_, k_] := DDD[n, k] = Sum[If[ j == 1 || j == n, 0, DDD[n / j, k - 1]], {j, Divisors[n]}]

DDD[n_, 1] := DDD[n, 1] = If[ j == 1, 0, 1]

DDD[8, 2]

2

DDA[n_, k_] := DDA[n, k] = Sum[DDA[n / j, k - 1], {j, Divisors[n]}]

DDA[n_, 1] := DDA[n, 1] = 1

DDA[30, 3]

27

PP[ n_, k_, s_ ] := Sum[ If[ j == 1 || j == n, 0,
    s MangoldtLambda[j] / (Log[j] k) (1 + PP[n / j, k + 1, s])], {j, Divisors[n]}]



N[PP[3, 1, 1]]

0.

Clear[DDA]
```