```
Ser[f_] := Ser[f] = Table[SeriesCoefficient[f[x], {x, 0, n}], {n, 0, 30}]
d[n_{,k_{]}} := d[n,k] = Sum[d[j,k-1]d[n/j,1],{j,Divisors[n]}];
d[n_{-}, 1] := 1; d[n_{-}, 0] := 0; d[1, 0] := 1
d2[n_{,k_{|}} := Sum[d2[j,k-1]d2[n/j,1], {j, Divisors[n]}];
d2[n_{-}, 1] := 1; d2[1, 1] := 0; d2[n_{-}, 0] := 0; d2[1, 0] := 1
dd[co_{, n_{, 1}]} := dd[co, n, 1] = Sum[co[[k+1]]d[n, k], \{k, 0, 30\}]
dd[co_{,n_{,k_{,j}}} := dd[c
dd[co_{n}, n_{n}, 0] := dd[co_{n}, 0] = 1
ii[co_{-}, co2_{-}, n_{-}, 1] := ii[co_{-}, co2_{-}, n_{-}, 1] = Sum[co[[k+1]] dd[co2_{-}, n_{-}, k], \{k, 0, 30\}]
ii[co_, co2_, n_, k_] :=
  ii[co, co2, n, k] = Sum[dd[co, co2, j, k-1] dd[co, co2, n/j, 1], {j, Divisors[n]}];
ii[co_, co2_, n_, 0] := ii[co, co2, n, 0] = 1
lgf[x_] := Log[x+1]
lg := lg = Ser[lgf]
as := as = Ser[ArcSin]
sn := sn = Ser[Sin]
ac := ac = Ser[ArcCos]
cs := cs = Ser[Cos]
tt := tt = Ser[Tan]
at := at = Ser[ArcTan]
Table[{n, N[dd[tt, n, 1]], N[ii[at, tt, n, 1]]}, {n, 2, 20}] // TableForm
2
              3.42546
                                    591628.
3
              3.42546
                                    591628.
              8.75948 2.01105 \times 10^7
5
              3.42546 591628.
              14.0935 3.96293 \times 10^7
6
7
              3.42546 591628.
8
              23.5347
                                    4.74888 \times 10^{8}
9
              8.75948 2.01105 \times 10^7
              14.0935
                                       3.96293 \times 10^{7}
10
              3.42546 591628.
11
12
              53.0852 1.38444 \times 10^9
13
              3.42546
                                       591628.
              14.0935 3.96293 \times 10^7
14
15
              14.0935 3.96293 \times 10^7
              64.1784 8.75045 \times 10^9
16
                                    591628.
17
              3.42546
              53.0852 1.38444 \times 10^9
18
19
              3.42546 591628.
20
              53.0852 1.38444 \times 10^9
```