```
bin[z_{,k_{]}} := Product[z_{,j_{,k_{]}}} / k!
ss1[n_] := HarmonicNumber[n - 1]
ss[n_, 0] := UnitStep[n]
ss[n_{,k_{]}} := ss[n,k] = Sum[(1/j)ss[n-j,k-1],{j,1,n-1}]
sz[n_{,z]} := Sum[z^k / (k!) ss[n,k], \{k, 0, n\}]
szz[n_{-}, z_{-}] := Pochhammer[n, z] / z!
s2[n_{,k_{,j}} := Sum[(-1)^{(k-j)}bin[k, j] szz[n, j], {j, 0, k}]
s2a[n_, k_] := Binomial[n-1, k]
s2o[n_, 0] := UnitStep[n]
s2o[n_{,k_{]} := s2o[n, k] = Sum[ s2o[n-j, k-1], {j, 1, n-1}]
sz2[n_{,z_{|}} := Sum[bin[z,k] s2o[n,k], \{k,0,n\}]
cdss1[n_] := 1 / (n-1)
dszz[n_{,z]} := Pochhammer[n, z-1] / (z-1)!
ds2a[n_{,k_{]} := Binomial[n-2, k-1]
ssx[n_{,} 0] := UnitStep[n-1]
ssx[n_{-}, k_{-}] := ssx[n, k] = Sum[(1/(j-1)) ssx[n_{-}(j-1), k_{-}1], \{j, 2, n\}]
szzx[n_, z_] := Pochhammer[n, z] / z!
s2x[n_{k}] := Sum[(-1)^{k}] := Sum[(-1)^{k}] szzx[n, j], {j, 0, k}
s2ax[n_{,k_{]}} := Binomial[n-1,k]
s2ox[n_{,0}] := UnitStep[n-1]
s2ox[n_{,k]} := s2ox[n,k] = Sum[s2ox[n-(j-1),k-1],{j,2,n}]
sz2x[n_{,z]} := Sum[bin[z,k] s2ox[n,k], \{k,0,n\}]
D[Gamma[0, n] + Log[n] + EulerGamma, n]
1 e^{-n}
n n
D[LogIntegral[n] - Log[Log[n]] - EulerGamma, n]
            1
Log[n] nLog[n]
\texttt{D[szz[10, z] - szz[9, z], z] /. z \rightarrow 0}
1
9
D[Log[n], n]
1
n
```