```
If[1 < 1, 0, 1+d ((z+1)/k-1) Sum[f[fn[n, jd], z, k+1, d, l-1, fn], {j, 1, (n-1)/d}]]
N[D[-1/x LaguerreL[-z-1, 1, Log[x]], z] /. z \rightarrow 0/. x \rightarrow 5]
0.497068
(1/Log[x] - 1/(xLog[x]))/.x \rightarrow 5.
0.497068
N[D[-1/x LaguerreL[-7z-1, 1, Log[x]], z] /.z \rightarrow 0/.x \rightarrow 5]
3.47948
7 (1/Log[x] - 1/(xLog[x])) /.x \rightarrow 5.
3.47948
FullSimplify[
   Sum[Binomial[t-1,a-1] \ Binomial[u-1,b-1], \{t,1,x\}, \{u,1,x-t\}] \ /. \ a \to 2 \ /. \ b \to 3]
\frac{1}{120} \ (-4+x) \ (-3+x) \ (-2+x) \ (-1+x) \ x
Binomial[x, 5]
 \frac{1}{100} (-4+x) (-3+x) (-2+x) (-1+x) x
FullSimplify@Integrate[t^{(a-1)}/(a-1)!u^{(b-1)}/(b-1)!, {t, 0, x-1}, {u, 0, (x-1)-t}]
\label{eq:conditionalExpression} \begin{split} & \left[ \frac{\left( -1+x \right)^{a+b}}{\mathsf{Gamma} \left[ 1+a+b \right]} \text{ , } \mathsf{Re}\left[ a \right] > 0 \text{ \&\& Re}\left[ b \right] > -1 \text{ \&\& } x > 1 \right] \end{split}
NΓ
   Integrate [ Log[t] ^ (a-1) / (a-1) / (a-1) ] Log[u] ^ (b-1) / (b-1) ] , {t, 1, x}, {u, 1, x/t} / .a 	o 2 / .a 	o 2
        b \rightarrow 3 / . x \rightarrow 12
6.60611
 (-1)^{(2+3)} Gamma [2+3, 0, -Log[12.]] / Gamma <math>[2+3]
6.60611 - 4.04508 \times 10^{-15} i
Sum[Pochhammer[t, a-1] / (a-1) ! Pochhammer[u, b-1] / (b-1) !,
             \{t, 1, x-1\}, \{u, 1, x-1-t\}\] /. a \rightarrow 2.2 /. b \rightarrow 3.3 /. x \rightarrow 7
164.023
Pochhammer [7-1-1, 2.2+3.3] / (2.2+3.3)!
164.023
Integrate [t^{(a-1)}/(a-1)!(x-t)^{(b-1)}/(b-1)!, \{t, 0, x\}]
\label{eq:conditional} Conditional Expression \Big[ \frac{x^{-1+a+b}}{\text{Gamma}\, [\, a+b\, ]} \; \text{, } \; \text{Re}\, [\, a\, ] \; > \; 0 \; \&\& \; \text{Re}\, [\, b\, ] \; > \; 0 \; \&\& \; x \; > \; 0 \, \Big]
 N[Integrate[Log[t]^{(a-1)/(a-1)/(b-1)/(b-1)/(b-1)/(b-1)/(b-1)!, \{t, 1, x\}] /. a \rightarrow 2/. b \rightarrow 3/. 
      x \rightarrow 12
4.87607
```