```
 \label{eq:defn_n_k_j}  \mbox{Dd}[\mbox{fn}_-, \mbox{n}_-, \mbox{k}_-, \mbox{s}_-] := \mbox{Sum}[\mbox{(fn}[\mbox{m}] \mbox{`} (\mbox{k} - \mbox{j})) \mbox{ Binomial}[\mbox{k}, \mbox{j}] \mbox{Dd}[\mbox{fn}, \mbox{n} / \mbox{(m^{\mbox{`}} (\mbox{k} - \mbox{j})), \mbox{j}, \mbox{m} + 1], 
         {m, s, n^{(1/k)}, {j, 0, k-1}}
Dd[fn_, n_, 0, s_] := 1
dd[fn_{n}, n_{k}] := Dd[fn, n, k, 2] - Dd[fn, n-1, k, 2]
 fulld[fn_{-}, n_{-}, k_{-}, t_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}, k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}] + fulld[fn_{-}, n_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}, k_{-}] := Sum[fn[j] Dd[fn_{-}, n_{-}], k_{-}] + fulld[fn_{-}, n_{-}], \{j, t_{+}, n_{-}(1/2)\}] + fulld[fn_{-}, n_{-}], \{j, t_{+}, 
        Sum[Sum[fn[m], {m, Floor[n/(j+1)]+1, n/j}] Dd[fn, j, k-1, 2],
            {j, 1, n/Floor[n^{(1/2)} - 1}] +
        Sum[dd[fn, j, k-1] Sum[fn[m], \{m, 2, n/j\}], \{j, 2, t\}] +
        Sum[fn[s] dd[fn, j, m] Dd[fn, n/(js), k-m-1, 2],
             {j, 2, t}, {s, Floor[t/j] + 1, Floor[n/j]^(1/2)}, {m, 1, k-2}] +
        {\tt Sum} [\, ({\tt Sum} [\, {\tt fn} [\, {\tt m}] \, , \, \{ {\tt m, \, Floor} [\, {\tt n \, / \, \, (j \, (s+1) \, )} \,] \, + 1 \, , \, {\tt n \, / \, \, (j \, s) \, \}} \,])
                  (Sum[dd[fn, j, m] Dd[fn, s, k-m-1, 2], \{m, 1, k-2\}]),
             {j, 2, t}, {s, 1, Floor[n/j]/Floor[Floor[n/j]^(1/2)]-1}
fulld[fn_{, n_{, j}}, 1, t_{, j}] := Sum[fn[j], {j, 2, n}]
id[n_] := 1
Dd[id, 1000, 3, 2]
11 217
fulld[id, 1000, 3, 9]
11 217
```