```
Lm1[n_, c_] :=
 -Sum[Log[j] + Lml[n/j, c], {j, 2, n}] + cSum[Log[jc] + Lml[n/(jc), c], {j, 1, n/c}]
Lm2[n_{,c]} := Sum[-Log[j] - Lm2[n/j,c], {j,2,n}] -
  If[n/c < 2, 0, cSum[-Log[jc] - Lm2[n/(jc), c], {j, 2, n/c}]] -
  If[n/c < 1, 0, cSum[-Log[jc] - Lm2[n/(jc), c], {j, 1, 1}]]
Lm3[n_, c_] := Sum[-Log[j] - Lm3[n/j, c], {j, 2, n}] -
  If[n/c < 2, 0, Sum[-cLog[jc] - cLm3[n/(jc), c], {j, 2, n/c}]] -
  If[n/c < 1, 0, -cLog[c] - cLm3[n/c, c]]
Lm4[n_c c_] := If[n/c < 2, 0, Sum[-Log[j] - Lm4[n/j, c], {j, 2, n/c}]] +
  If[Floor[n/c] + 1 > n, 0, Sum[-Log[j] - Lm4[n/j, c], {j, Floor[n/c] + 1, n}]] -
  If[n/c < 2, 0, Sum[-cLog[jc]-cLm4[n/(jc), c], {j, 2, n/c}]]
  If[n/c < 1, 0, -cLog[c] - cLm4[n/c, c]]
N[Lm1[100, 2]]
-6.70877
N[Lm2[100, 2]]
-6.70877
N[Lm3[100, 2]]
-6.70877
N[Lm4[100, 2]]
$RecursionLimit::reclim: Recursion depth of 256 exceeded. >>>
$RecursionLimit::reclim: Recursion depth of 256 exceeded. >>>
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General::stop: Further output of $RecursionLimit::reclim will be suppressed during this calculation. >>
$Aborted
Em1[n_, c_] := 1 - (1/den[c])
   Sum[If[alpha[j,c] = 0, 0, alpha[j,c] (Eml[den[c]n/j,c])], \{j, den[c]+1, den[c]n\}]
c Sum[ Em2[n/(jc), c], {j, 1, n/c}]
Em1[100, 3/2]
19685
 2048
```