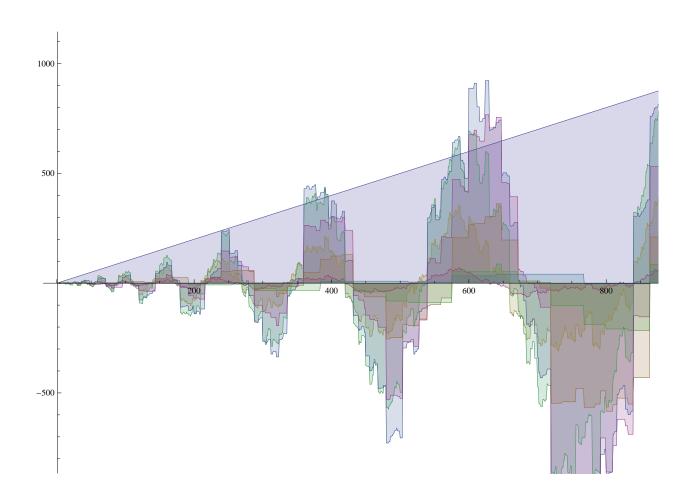
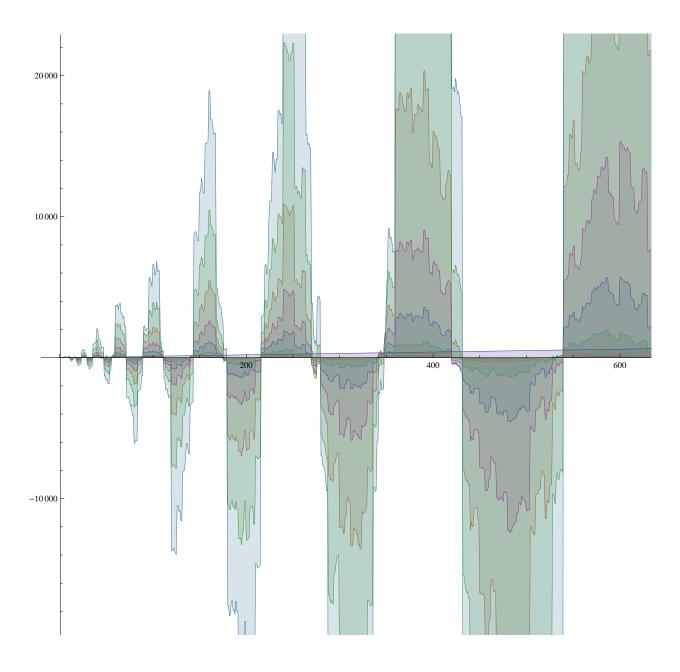
```
ClearAll["Global`*"]
d2[n_{,k_{||}} := d2[n,k] = Sum[d2[j,k-1]d2[n/j,1], {j, Divisors[n]}];
d2[n_{-}, 1] := MoebiusMu[n]; d2[1, 1] := 0; d2[n_{-}, 0] := 0; d2[1, 0] := 1
D2[n_{-}, k_{-}] := D2[n, k] = D2[n-1, k] + d2[n, k]; D2[1, k_{-}] := 0
K[n_{-}] := K[n] = FullSimplify[MangoldtLambda[n] / Log[n]]
k2[n_{,k_{||}} := k2[n, k] = Sum[k2[j, k-1] k2[n/j, 1], {j, Divisors[n]}];
k2[n_{-}, 1] := K[n]; k2[1, 1] := 0; k2[n_{-}, 0] := 0; k2[1, 0] := 1
K2[n_{k}] := K2[n, k] = K2[n-1, k] + k2[n, k]; K2[1, k] := 0
e2[n_{1}, 1] := e2[n, 1] = Sum[1/(k!)d2[n, k], \{k, 0, Log[2, n]\}]; e2[1, 1] := 0;
e2[n_{,k_{-}}] := Sum[e2[j,k-1]] = 2[n/j,1], {j,Divisors[n]}]; e2[n_{,0}] := 0; e2[1,0] := 1
E2[n_{-}, k_{-}] := E2[n, k] = E2[n-1, k] + e2[n, k]; E2[1, k_{-}] := 0
E1[n_{k}] := Sum[Binomial[k, j] E2[n, j], {j, 0, k}]
DiscretePlot[
 \{E2[n, 1], E2[n, 2], E2[n, 3], E2[n, 4], E2[n, 5], E2[n, 6], E2[n, 7], E2[n, 8]\}, \{n, 1, 1000\}
DiscretePlot[ \{E1[n, 1], E1[n, 2], E1[n, 3], E1[n, 4], 
  E1[n, 5], E1[n, 6], E1[n, 7], E1[n, 8]}, {n, 1, 1000}]
DiscretePlot[ {E1[n, 1]}, {n, 1, 2000}]
```





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