```
f[n_] := Sum[ Log[j] - f[n / j], {j, 2, n}]

N[f[100]]

94.0453

f2[n_] := Sum[ (-1)^(j + 1) (Log[j] - f2[n / j]), {j, 2, n}]

N[f2[100]] + N[Sum[ 2^k Log[2], {k, 1, Log[2, 100]}]]

94.0453
```