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i=30000	log10(num)=121288	log10(denom)=121287
i=40000	log10(num)=166714	log10(denom)=166713
i=50000	log10(num)=213238	log10(denom)=213237
i=60000	log10(num)=260635	log10(denom)=260634
i=70000	log10(num)=308760	log10(denom)=308759
i=80000	log10(num)=357508	log10(denom)=357506
i=90000	log10(num)=406799	log10(denom)=406798
i=100000	log10(num)=456575	log10(denom)=456573
i=110000	log10(num)=506785	log10(denom)=506784
i=120000	log10(num)=557390	log10(denom)=557389
i=130000	log10(num)=608358	log10(denom)=608357
i=140000	log10(num)=659661	log10(denom)=659660
i=150000	log10(num)=711274	log10(denom)=711273
i=160000	log10(num)=763176	log10(denom)=763175
i=170000	log10(num)=815350	log10(denom)=815349
i=180000	log10(num)=867780	log10(denom)=867779
i=190000	log10(num)=920451	log10(denom)=920450
i=200000	log10(num)=973351	log10(denom)=973350
i=210000	log10(num)=1.02647e+06	log10(denom)=1.02647e+06
i=220000	log10(num)=1.07979e+06	log10(denom)=1.07979e+06
i=230000	log10(num)=1.13331e+06	log10(denom)=1.13331e+06
i=240000	log10(num)=1.18702e+06	log10(denom)=1.18702e+06
i=250000	log10(num)=1.24092e+06	log10(denom)=1.24091e+06
i=260000	log10(num)=1.29498e+06	log10(denom)=1.29498e+06
i=270000	log10(num)=1.34921e+06	log10(denom)=1.34921e+06
i=280000	log10(num)=1.40361e+06	log10(denom)=1.4036e+06
i=290000	log10(num)=1.45815e+06	log10(denom)=1.45815e+06
i=300000	log10(num)=1.51285e+06	log10(denom)=1.51285e+06
i=310000	log10(num)=1.5677e+06	log10(denom)=1.56769e+06
i=320000	log10(num)=1.62268e+06	log10(denom)=1.62268e+06

i=330000	log10(num)=1.6778e+06	log10(denom)=1.6778e+06
i=340000	log10(num)=1.73305e+06	log10(denom)=1.73305e+06
i=350000	log10(num)=1.78843e+06	log10(denom)=1.78842e+06
i=360000	log10(num)=1.84393e+06	log10(denom)=1.84393e+06
i=370000	log10(num)=1.89955e+06	log10(denom)=1.89955e+06
i=380000	log10(num)=1.95529e+06	log10(denom)=1.95529e+06
i=390000	log10(num)=2.01114e+06	log10(denom)=2.01114e+06
i=400000	log10(num)=2.06711e+06	log10(denom)=2.06711e+06
i=410000	log10(num)=2.12318e+06	log10(denom)=2.12318e+06
i=420000	log10(num)=2.17937e+06	log10(denom)=2.17936e+06
i=430000	log10(num)=2.23565e+06	log10(denom)=2.23565e+06
i=440000	log10(num)=2.29203e+06	log10(denom)=2.29203e+06
i=450000	log10(num)=2.34852e+06	log10(denom)=2.34852e+06
i=460000	log10(num)=2.4051e+06	log10(denom)=2.4051e+06
i=470000	log10(num)=2.46177e+06	log10(denom)=2.46177e+06
i=480000	log10(num)=2.51854e+06	log10(denom)=2.51854e+06
i=490000	log10(num)=2.5754e+06	log10(denom)=2.5754e+06
i=500000	log10(num)=2.63234e+06	log10(denom)=2.63234e+06
i=510000	log10(num)=2.68937e+06	log10(denom)=2.68937e+06
i=520000	log10(num)=2.74649e+06	log10(denom)=2.74649e+06
i=530000	log10(num)=2.80369e+06	log10(denom)=2.80369e+06
i=540000	log10(num)=2.86098e+06	log10(denom)=2.86098e+06
i=550000	log10(num)=2.91834e+06	log10(denom)=2.91834e+06
i=560000	log10(num)=2.97578e+06	log10(denom)=2.97578e+06
i=570000	log10(num)=3.03331e+06	log10(denom)=3.0333e+06
i=580000	log10(num)=3.0909e+06	log10(denom)=3.0909e+06
i=590000	log10(num)=3.14857e+06	log10(denom)=3.14857e+06
i=600000	log10(num)=3.20632e+06	log10(denom)=3.20632e+06
i=610000	log10(num)=3.26414e+06	log10(denom)=3.26413e+06
i=620000	log10(num)=3.32202e+06	log10(denom)=3.32202e+06
i=630000	log10(num)=3.37998e+06	log10(denom)=3.37998e+06
i=640000	log10(num)=3.43801e+06	log10(denom)=3.43801e+06
i=650000	log10(num)=3.49611e+06	log10(denom)=3.49611e+06
i=660000	log10(num)=3.55427e+06	log10(denom)=3.55427e+06
i=670000	log10(num)=3.6125e+06	log10(denom)=3.6125e+06
i=680000	log10(num)=3.67079e+06	log10(denom)=3.67079e+06
i=690000	log10(num)=3.72915e+06	log10(denom)=3.72915e+06
i=700000	log10(num)=3.78757e+06	log10(denom)=3.78757e+06
i=710000	log10(num)=3.84605e+06	log10(denom)=3.84605e+06
i=720000	log10(num)=3.90459e+06	log10(denom)=3.90459e+06
i=730000	log10(num)=3.9632e+06	log10(denom)=3.96319e+06
i=740000	log10(num)=4.02186e+06	log10(denom)=4.02186e+06
i=750000	log10(num)=4.08058e+06	log10(denom)=4.08058e+06
i=760000	log10(num)=4.13936e+06	log10(denom)=4.13936e+06
i=770000	log10(num)=4.1982e+06	log10(denom)=4.19819e+06
i=780000	log10(num)=4.25709e+06	log10(denom)=4.25709e+06
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