**Test Case 1: x = 2.5**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 2.5

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 334426260087.

The clock time after completion of calculations was 334426288957.

The harmonic computation required 28870 clock cycles (tics) which is 0.00001110 seconds.

The harmonic sum is 2.592857142857143, which required the addition of 7 terms.

The driver received this value: 2.592857142857143

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 2: x = 4.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 4.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 347851563781.

The clock time after completion of calculations was 347851624535.

The harmonic computation required 60754 clock cycles (tics) which is 0.00002337 seconds.

The harmonic sum is 4.027245195436520, which required the addition of 31 terms.

The driver received this value: 4.027245195436520

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 3: x = 5.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 5.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 364474785947.

The clock time after completion of calculations was 364474862841.

The harmonic computation required 76894 clock cycles (tics) which is 0.00002957 seconds.

The harmonic sum is 5.002068272680166, which required the addition of 83 terms.

The driver received this value: 5.002068272680166

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 4: x = 7.5**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 7.5

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 377112750167.

The clock time after completion of calculations was 377113103965.

The harmonic computation required 353798 clock cycles (tics) which is 0.00013608 seconds.

The harmonic sum is 7.500352086326386, which required the addition of 1015 terms.

The driver received this value: 7.500352086326386

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 5: x = 8.5**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 8.5

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 396516539381.

The clock time after completion of calculations was 396517410773.

The harmonic computation required 871392 clock cycles (tics) which is 0.00033515 seconds.

The harmonic sum is 8.500020453252846, which required the addition of 2759 terms.

The driver received this value: 8.500020453252846

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 6: x = 10.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 10.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 443373771659.

The clock time after completion of calculations was 443377492731.

The harmonic computation required 3721072 clock cycles (tics) which is 0.00143118 seconds.

The harmonic sum is 10.000043008275778, which required the addition of 12367 terms.

The driver received this value: 10.000043008275778

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 7: x = 15.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 15.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 451342420651.

The clock time after completion of calculations was 451639751614.

The harmonic computation required 297330963 clock cycles (tics) which is 0.11435806 seconds.

The harmonic sum is 15.000000378267234, which required the addition of 1835421 terms.

The driver received this value: 15.000000378267234

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 8: x = 20.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 20.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 470455073687.

The clock time after completion of calculations was 511363211560.

The harmonic computation required 40908137873 clock cycles (tics) which is 15.73389918 seconds.

The harmonic sum is 20.000000001618233, which required the addition of 272400600 terms.

The driver received this value: 20.000000001618233

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming

**Test Case 9: x = 24.0**

parallels@ubuntu:~/Assembly/HarmonicSeries$ ./compiler

Welcome to harmonic series by Art Grichine!

The program will compute a partial sum of the harmonic series.

These results were obtained on a MacBook Pro (late 2013) running Haswell i7 at 2.6GHz.

Please enter a positive real number X: 24.0

The smallest harmonic sum ≥ X is being computed.

The clock time before the calculations began was 528373816157.

The clock time after completion of calculations was 2766154240452.

The harmonic computation required 2237780424295 clock cycles (tics) which is 860.68477857 seconds.

The harmonic sum is 24.000000000042586, which required the addition of 14872568832 terms.

The driver received this value: 24.000000000042586

The driver will return 0 to the operating system. Enjoy your programming.

There's no fun greater than X86-64 programming