# Outpurt from Run on linux

Integer overflow occurred when 1000000000 was multiplied with 3

Integer overflow did not occur occur when 1000000000 was multiplied with 2

Integer overflow has occurred while computing factorial of: 13

Integer overflow has occurred while computing fibonacci of sequence length: 46

At 309th iteration, the floating point overflowed

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Floating Operations : INFINITY
Value of 1/x where x is infinity is: Positive Zero
Value of sin(x) where x is infinity is: NAN
Value of exp(x) where x is infinity is: Positive Infinity

Floating Operations : NEGATIVE INFINITY
Value of 1/x where x is -infinity is: Negative Zero
Value of sin(x) where x is -infinity is: NAN
Value of exp(x) where x is -infinity is: Positive Zero

Floating Operations : NAN
Value of 1/x where x is NAN is: NAN
Value of sin(x) where x is NAN is: NAN
Value of exp(x) where x is NAN is: NAN

Value of log(x) where x is +0 is: Negative Infinity
Value of log(x) where x is -0 is: Negative Infinity

Value of sin(x)/x where x is +0 is: NAN
Value of sin(x)/x where x is -0 is: NAN

Value of sin(x)/|x| where x is +0 is: NAN
Value of sin(x)/|x| where x is -0 is: NAN

Value of sin(1.23456789012345x)/x where x is +0 is: NAN

At iteration number 22, both the conditions (X==Y) and (X-Y == 0) got true which means the gradual underflow is supported in the compiler

At iteration number 19, both the conditions (X==Y) and (X-Y == 0) got true which means the gradual underflow is supported in MacOS

Pi Calculation
Pi is 3.14159265358979323851280895941