$ g++ -std=gnu++0x \*.cpp -o driver

$ valgrind ./driver

==2841== Memcheck, a memory error detector

==2841== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.

==2841== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info

==2841== Command: ./driver

==2841==

2 + 3

5

3 \* 4 + 5

17

3 + 4 \* 5

23

4 \* -2

-8

( 1 + 2 ) \* 5

15

1 - 2 \* 6 % 3

1

( 1 + 2 ) \* ( 4 + 5 ) - 5

22

1 / 0

Invalid expression or division/modulus by zero

3 % 0

Invalid expression or division/modulus by zero

1 - 1 - 1

-1

quit

==2841==

==2841== HEAP SUMMARY:

==2841== in use at exit: 0 bytes in 0 blocks

==2841== total heap usage: 118 allocs, 118 frees, 47,051 bytes allocated

==2841==

==2841== All heap blocks were freed -- no leaks are possible

==2841==

==2841== For counts of detected and suppressed errors, rerun with: -v

==2841== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)