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ajain: ~/.../468/ArnavJain_Assignment8
(base) ajain:~/.../468/ArnavJain_Assignment8$ ghci a8.hs
GHCi, version 9.4.8: https://www.haskell.org/ghc/ :? for help

<no location info>: warning: [-Wmissd-extra-shared-lib]
  libgmp.so: cannot open shared object file: No such file or directory
  It's OK if you don't want to use symbols from it directly.
  (the package DLL is loaded by the system linker
   which manages dependencies by itself).
[1 of 2] Compiling Main                ( a8.hs, interpreted )
Ok, one module loaded.
ghci> evaluate "3 + 4"
7.0
ghci> -- Above is 1 below is 2
ghci> evaluate "8 - (5 - 2)"
5.0
ghci> evaluate "10 * 2 / 5"
4.0
ghci> -- Above is 3 below is 4
ghci> evaluate "2 ** 3"
8.0
ghci> evaluate "4 * (3 + 2) % 7 - 1"
5.0
ghci> -- Above is 5 below is 6
ghci> evaluate "(14 + 16 - 12) * 3 / - 4 % 6 ** 2"
*** Exception: Invalid input
CallStack (from HasCallStack):
  error, called at a8.hs:190:19 in main:Main
ghci> evaluate "(14 + 16 - 12) * 3 / - 4 % 6 ** 2"
22.5
ghci> -- Above error was due to weird -. Below is start of invalid
ghci> evaluate "2 * (4 + 3 - 1"
*** Exception: Missing closing parenthesis
CallStack (from HasCallStack):
  error, called at a8.hs:161:15 in main:Main
ghci> -- Above is 1 below is 2
ghci> evaluate "* 5 + 2"
*** Exception: Missing a number or some input error like closed parenthesis befo
re open, dangling number/operator
CallStack (from HasCallStack):
  error, called at a8.hs:169:13 in main:Main
ghci> evaluate "4 / 0"
*** Exception: Dividing by 0
CallStack (from HasCallStack):
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error, called at a8.hs:78:15 in main:Main
ghci> -- Above is 3 below is 4
ghci> evaluate "5 (2+3)"
*** Exception: Unparsed input remaining: (2+3)
CallStack (from HasCallStack):
  error, called at a8.hs:188:22 in main:Main
ghci> evaluate "7 & 3"
*** Exception: Invalid input
CallStack (from HasCallStack):
  error, called at a8.hs:190:19 in main:Main
ghci> -- Above is 5 below is 6
ghci> evaluate "((3 + 4) - 2) + (1)"
6.0
ghci> evaluate "(((3 + 4) - 2) + (1)"
*** Exception: Missing closing parenthesis
CallStack (from HasCallStack):
  error, called at a8.hs:161:15 in main:Main
ghci> -- Forgot extra (
ghci> evaluate "((5 + 2) / (3 * 0))"
*** Exception: Dividing by 0
CallStack (from HasCallStack):
  error, called at a8.hs:78:15 in main:Main
ghci> -- Above is 7 below is 8
ghci> evaluate "((2 -) 1 + 3)"
*** Exception: Missing a number or some input error like closed parenthesis before open, dangling number/operator
CallStack (from HasCallStack):
  error, called at a8.hs:169:13 in main:Main
ghci> evaluate "((4 * 2) + ( - ))"
*** Exception: Missing a number or some input error like closed parenthesis before open, dangling number/operator
CallStack (from HasCallStack):
  error, called at a8.hs:169:13 in main:Main
ghci> -- Above is 9 below is 10
ghci> evaluate "((7 * 3) ^ 2)"
*** Exception: Invalid input
CallStack (from HasCallStack):
  error, called at a8.hs:190:19 in main:Main
ghci> -- Below is 11
ghci> evaluate "((14 + 16 - 12) * 3 /) - 4 % 6 ** 2"
*** Exception: Invalid input
CallStack (from HasCallStack):
  error, called at a8.hs:190:19 in main:Main
```