I am having a difficult time figuring out how to deal with expressions that are of different data types.

I can evaluate expressions if the expression is all integers, or all doubles, but the only way I can think to do it with different is to have a LOT of if, else if, and switch case statements, like an unbearable amount. Can anyone shed some light as possible ways to handle evaluating expressions with different data types.

I added functions like Value *add(Value*, Value*) and Value *multiply(Value*, Value*) to my value class. You still have to write all the switch-case statements, but this way they’re separated into 15-20 line functions.

There are other ways (dynamic dispatch, data-directed programming), but a big if-then-else chain is OK for this project.

evtilley's suggestion is a very good one.