Subject: Handling different Expression types
Posted by bmbaker1 on Fri, 09 Sep 2016 02:43:51 GMT

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.

Subject: Re: Handling different Expression types
Posted by evtilley on Fri, 09 Sep 2016 03:38:56 GMT

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.

Subject: Re: Handling different Expression types
Posted by lusth on Fri, 09 Sep 2016 11:09:25 GMT

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.