COMP 410 Spring 2018

Grammar-based Test Generation

Consider the following grammar, corresponding to a simplistic programming language:

$$e \in Expression ::= true \mid false \mid if(e_1, e_2, e_3)$$

Using Prolog, write a procedure which takes a maximum expression depth, and will produce valid sentences according to the above grammar. An example query is below:

```
?- exp(0, E).
E = true;
E = false.
```