

CS 3723: Programming Languages

Feb 24, 2012

You Name:

1. Which of the following are correct expressions in ML? Declare the type for each valid expression.
 - (a) `nil`
 - (b) `[[1],[2,3],[4,5,6]]`
 - (c) `#3("a","b")`
 - (d) `5 = #2(1,2.3)`
 - (e) `fun foo(y) = (y := 7;y)`
 - (f) `!(ref 7) + 8`
 - (g) `datatype tree= LEAF of int | NODE of tree*tree;
NODE(LEAF(3),LEAF(5))`
 - (h) `datatype tree= LEAF of int | NODE of {Left:tree,Right:tree};
NODE{Left=LEAF(3),Right=LEAF(5)}`