

CS 3723: Programming Languages

Feb 13, 2012

You Name:

1. Which of the following components belong to the Lisp abstract machine?
 - (a) lexical and syntax analysis
 - (b) A Lisp expression to evaluate and the continuation of the expression
 - (c) An A-list which maps variable names to their values
 - (d) A collection of cons cells which represent available memory stores
 - (e) A garbage collector which reclaims dynamic memory no longer in use.
2. A dynamic memory cell can be safely garbage-collected if
 - (a) it has been *freed/deleted* explicitly by developer
 - (b) it can no longer be reached from any variable of the user program
 - (c) it has never been shared