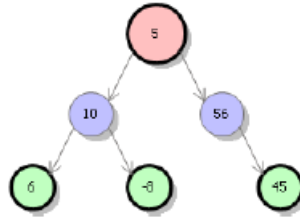


DSL Project – Binary Tree Language



My project and the chosen domain is the language of binary trees which is implemented under Visual Studio 2008 DSL Tools. The implementation followed the normal way (which was on the lecture). The other important part of this project, which is perhaps considerable is the constraints of the binary tree. Here below I would like to give some conditions which are important to keep in mind to construct a binary tree and I have used them in my project (validation). So:

- ⑩ every state is accessible
- ⑩ for every node is valid that the targets of a node are between 0 and *
- ⑩ for every node is valid that the source of a node is 0 or 1

- ⑩ The root node:
 - ⑩ do not have parent
 - ⑩ can be existed exactly alone
 - ⑩ has maximum two childrens
 - ⑩ is not allowed to have an incoming transition

- ⑩ The internal nodes:
 - ⑩ have maximum two childrens but minimum one
 - ⑩ have exactly one parent

- ⑩ The leaf nodes:
 - ⑩ do not have children(s)
 - ⑩ have exactly one parent

From conditions are following: the inverse edges and recursive edges are forbidden to make them