

Test #1 about Erlang

Christian Rinderknecht

19 May 2008

Question 1. Complete the following equations:

```
preorder(flip(Tree)) =  
inorder(flip(Tree)) =  
postorder(flip(Tree)) =
```

Question 2. What do functions `f/1` and `g/1` compute? How many steps are needed to reach the result?

```
-module(mystery).  
-export([f/1,g/1]).
```

```
f(T) -> f([],[],T).
```

```
f(Nodes,[],empty) ->  
  Nodes;  
f(Nodes,[Left|Forest],empty) ->  
  f(Nodes,Forest,Left);  
f(Nodes,Forest,{Left,Root,Right}) ->  
  f([Root|Nodes],[Left|Forest],Right).
```

```
g(T) -> g([],[],T).
```

```
g(Nodes,[],empty) ->  
  Nodes;  
g(Nodes,[{Left,Root,empty}|Forest],empty) ->  
  g([Root|Nodes],Forest,Left);  
g(Nodes,Forest,{Left,Root,Right}) ->  
  g(Nodes,[{Left,Root,empty}|Forest],Right).
```