Pastebin Link: <http://paste.ubuntu.com/25645440/>

*/\**  
 *\* Define SIZE to be the number of nodes.*  
 *\* The adjacency list is represented by adj[];*  
 *\* par[] contains the parent of each node*  
 *\* lc[] contains the leftmost child*  
 *\* rs[] contains the sibling immediately right*  
 *\* to the respective node.*  
*\*/*  
  
vector <**int**> adj[SIZE];  
**int** par[SIZE], lc[SIZE], rs[SIZE], last[SIZE];  
**void** dfs(**int** nd){  
 **int** last=-1;  
 **for**(**unsigned** **int** i=0; i<adj[nd].size(); i++){  
 **int** v=adj[nd][i];  
 **if**(par[v]==-1){  
 par[v]=nd;  
 **if**(last!=-1) rs[last]=v;  
 **if**(lc[nd]==-1) lc[nd]=v;  
 dfs(v);  
 last=v;  
 }  
 }  
}  
  
**void** sibling\_construction(){  
 memset(lc, -1, **sizeof**(lc));  
 memset(rs, -1, **sizeof**(rs));  
 memset(par, -1, **sizeof**(par));  
 par[1]=1;  
 dfs(1);  
}