1. #include <iostream>. Waral 鍗氬鏈夋洿澶氭枃绔�,
2. #include <vector>
3. #include <queue>
4. using namespace std; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
5. 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
6. struct TreeNode {
7. string tag;
8. string text;
9. vector<TreeNode\*> children;
10. TreeNode(string tag\_, string text\_) {
11. tag = tag\_;
12. text = text\_;. 鍥磋鎴戜滑@1point 3 acres
13. }. From 1point 3acres bbs
14. }; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
15. .鏈枃鍘熷垱鑷�1point3acres璁哄潧
16. TreeNode\* parse(string& html, int& i) {
17. if(html[i] == '[') {
18. i++; // skip '['
19. int j = html.find(']', i);
20. string tag = html.substr(i, j-i);
21. i = j + 1;-google 1point3acres
23. int start = i;
24. TreeNode\* root = new TreeNode(tag, "");
25. while(html.substr(i,2) != "[/") {. visit [1point3acres.com](http://1point3acres.com/) for more.
26. auto child = parse(html, i);
27. if(child) root->children.push\_back(child);
28. }
29. root->text = html.substr(start, i-start);
30. i += 2;
31. i = html.find(']', i);
32. i++;// skip ']'
33. return root;
34. }
35. else {
36. while(i < html.length() && html[i] != '[') i++; // scan all text content
37. return nullptr;
38. }
39. }. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
40. TreeNode\* parseHtml(string& html) {
41. TreeNode\* root = new TreeNode("","");
42. for(int i = 0; i < html.length(); ) {
43. auto tmp = parse(html, i);. From 1point 3acres bbs
44. if(tmp) root->children.push\_back(tmp);. visit [1point3acres.com](http://1point3acres.com/) for more.
45. }
46. return root;
47. }
48. void printTree(TreeNode\* root) {
49. queue<TreeNode\*> q;
50. q.push(root);. [1point3acres.com/bbs](http://1point3acres.com/bbs)
51. while(!q.empty()) {. Waral 鍗氬鏈夋洿澶氭枃绔�,
52. int qsize = q.size();
53. while(qsize-- > 0) {. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
54. auto top = q.front();
55. q.pop();
56. cout << "tag:" << top->tag << " text:" << top->text << "    ";
57. for(auto c : top->children) q.push(c);. From 1point 3acres bbs
58. }
59. cout << endl;.鏈枃鍘熷垱鑷�1point3acres璁哄潧
60. }-google 1point3acres
61. }
62. int main(int argc, const char \* argv[]) {
63. // insert code here...
64. string html = "[text] Hello [/text] [bold]![/bold] [mark]word[/mark]";. [1point3acres.com/bbs](http://1point3acres.com/bbs)
65. printTree(parseHtml(html));. [1point3acres.com/bbs](http://1point3acres.com/bbs)
66. cout << endl;. 1point 3acres 璁哄潧
67. html = "[text] Hello [/text] [bold]abc[tiny] maketiny [/tiny]123[/bold] [mark]word[/mark]";
68. printTree(parseHtml(html));
69. return 0;
70. }