04/10/18 04:56:49 D:\git-repos\data-structure-homework\06\e17.cpp

```
 1  #include <cstdio>
 2  #include <cstring>
 3  #include <iostream>
 4  #define MXN 1007
 5  using namespace std;
 6  struct node {
 7      int id;
 8      node *c[2];
 9      node() { id = 0; }
10  } nds[MXN];
11  void dfs(node *root) {
12      if (!root || !(root - nds)) return;
13      putchar('(');
14      dfs(root->c[0]);
15      printf("%d", root->id);
16      dfs(root->c[1]);
17      putchar(')');
18  }
19
20  int n;
21  int main() {
22      scanf("%d", &n);
23      for (int i = 1; i <= n; ++i) {
24          int a, b;
25          nds[i].id = i;
26          scanf("%d %d", &a, &b);
27          nds[i].c[0] = nds + a;
28          nds[i].c[1] = nds + b;
29      }
30      dfs(nds + 1);
31  }
32  /**
33  d:\git-repos\data-structure-homework\06>g++ e17.cpp
34
35  d:\git-repos\data-structure-homework\06>a
36  7 2 3 4 5 6 7 0 0 0 0 0 0 0 0
37  ((((4)2(5))1((6)3(7)))
38  d:\git-repos\data-structure-homework\06>
39  */
```