```
n2.addChild(&n6);
n2.addChild(&n7);
n1.printPreorder();
```

Question 1 (Sets/Vectors with Custom Classes)

The code below does the task of EX02: it reads student data from STDIN; outputs the smallest and the largest student compared by age; or by height (if ages are equal).

Source file **File1.cpp**:

```
1   #include <iostream>
2   #include <vector>
3   #include <string>
4   using namespace std;
5
6   struct Folder {
7       string name;
8       vector<Folder> children;
9       Folder(string nn) {name = nn;}
10      void makeSub(Folder ff) {
11          children.push_back(ff);
12      }
13  };
14
15  int main() {
16      Folder f1("f1");
17      Folder f2("f2");
18      Folder f3("f3");
19
20      f2.makeSub(f3);
21      f1.makeSub(f2);
22      cout << f2.children.size() << endl;
23  }
```

Write short answers to these questions: ... ...

```
Node n1(1);
Node n2(2);
Node n3(3);
Node n4(4);
Node n5(5);
Node n6(6);
Node n7(7);

nodeMap.insert(pair<int, Node>(1, n1));
n1.addChild(&n2);
n1.addChild(&n3);
n1.addChild(&n4);
n1.addChild(&n5);
nodeMap.insert(pair<int, Node>(1, n2));
```