```cpp
1  #include <iostream>
2  #include <fstream>
3  using namespace std;
4
5
6
7  struct nodetype
8  {
9      int coeff;
10     int exp;
11     nodetype* next;
12 };
13
14 class equation
15 {
16 private:
17     nodetype* begin;
18     nodetype* last;
19     int length;
20
21 public:
22     equation();
23     void insertitem(nodetype);
24     void printlist(ofstream&);
25     void add(equation e2,ofstream&);
26 };
```