```cpp
#include <iostream>
#include <fstream>
using namespace std;

struct nodetype
{
    int coeff;
    int exp;
    nodetype* next;
};

class equation
{
private:
    nodetype* begin;
    nodetype* last;
    int length;

public:
    equation();
    void insertitem(nodetype);
    void printlist(ofstream&);
};
```