Lexical_analyzer.h

```
set<string> PRE_OPERATORS = {"+", "-"};
set<char> BORDERS = {'(', ')', '{', '}', ',', ';'};
ifstream code reader ;
ofstream lexical_analyser_printer_;
unsigned int line_counter_;
bool print_detail_;
unsigned int step_counter_;
                                                   //是否为小数点
bool IsDot(const unsigned char ch);
bool IsLetter(const unsigned char ch);
bool IsDigital(const unsigned char ch);
bool IsSingleCharOperator(const unsigned char ch); //是否单符号运算符
bool IsDoubleCharOperatorPre(const unsigned char ch); //是否双符号运算符
bool IsBlank(const unsigned char ch);
unsigned char GetNextChar();
void PrintDetail(WordInfo word);
WordInfo GetBasicWord();
```

Lexical_analyzer.cpp

```
bool IsDot(const unsigned char ch)
{
    if (ch == '.')
        return true;
    else
        return false;
}
```

```
WordInfo LexicalAnalyzer::GetBasicWord()
在这个函数中添加的部分:
```

```
WordInfo LexicalAnalyzer::GetBasicWord()
    unsigned char ch;
    string str_token;
    WordInfo word;
    while (!code reader .eof())
        int flag = 0; //区分int 和 float的标志位
        ch = GetNextChar();
        if ('/' == ch) //处理注释
        { …
        }
        else if (IsDigital(ch)) //可能是小数float或者整数int
            str token += ch;
            while (!code_reader_.eof())
else if (IsDigital(ch)) //可能是小数float或者整数int
   str_token += ch;
  while (!code_reader_.eof())
```

```
else if (IsDigital(ch)) //可能是小数float或者整数int

{
    str_token += ch;
    while (!code_reader_.eof())
    {
        unsigned char next = GetNextChar();
        if (IsDigital(next)) //下一个是数字
        {
             str_token += ch;
        }
        else //下一个不是数字
        [
             if (ch == '.') //是小数, 继续循环判断后面的数字
        {
                  str_token += ch;
                  flag = 1; //是小数
                  continue;
        }
        else //不是小数,是int型数
        {
             code_reader_.seekg(-1, ios::cur); //输入文件指针回退,因为多读了next
            word.value = str_token;
            if (flag == 0)
                  word.type = LCINT; //int数
            else if (flag == 1)
                  word.type = LCFLOAT; //float数
            return word;
        }
}
```