

```

Lingo2fp_out.cpp
//Lingo2fp_out
//InLing.txtからfp_out.txtを作る

#include <iostream.h>
#include <fstream.h>
#include <iomanip.h>
#include <conio.h>
#include <limits.h>

int ceil(int a, int b);
int floor(int a, int b);
const int CTTL=2532;
const int RTTL=2532;

int main(void)
{
int rttl, ctl; //row total, column total
int i, j, k, minj;
int c_name[CTTL], cst[CTTL], h[CTTL];
unsigned int G[CTTL][RTTL/32+1], wk_G[RTTL/32+1];
char pb_name[32], csttype[17];
int h1, wk_cst, wd_cname;
unsigned int ww;
double cp[CTTL], wk_cp, density;

//追加変数///////////
char s1[80], s2[80], s3[80];
int rlength, dlength; //no user
rlength=80; // no user
dlength=rlength/2; // no user
///////////

ifstream lingo("InLing.txt");
ofstream fpout("fp_out.txt");

if(!lingo || !fpout) {
cerr << "Error 1" << endl;
return 1;
}

cout << "InLing.txtから、fp_outファイルへ変換中。" << endl;
lingo >> pb_name >> rttl >> ctl >> csttype >> density >> s1;
fpout << pb_name << ' ' << rttl << ' ' << ctl << ' ' << csttype << ' ' <<
density << endl;

lingo >> s1; //MODEL;
lingo >> s1; //SETS;
lingo >> s1 >> ctl >> s2; // cout << s1 << ' ' << s2 << endl;
lingo >> s1 >> rttl >> s2; // cout << s1 << ' ' << s2 << endl;
lingo >> s1 >> s2 >> s3; //cout << s1 << ' ' << s2 << ' ' << s3 << endl;
lingo >> s1; // cout << s1 << endl;
lingo >> s1 >> s2 >> s3; //cout << s1 << ' ' << s2 << ' ' << s3 << endl;

```

```

Lingo2fp_out.cpp
lingo >> s1;// cout << s1 << endl; // "ENDSETS" をよむ
lingo >> s2;// cout << s2 << endl; // MIN=
lingo >> s3;// cout << s3 << endl; // @FOR
lingo >> s1;// cout << s1 << endl; // @SUM
lingo >> s2;// cout << s2 << endl; // "@FOR(COL(J):X(J)>0);"
lingo >> s3; //cout << s3 << endl; // @FOR(COL
lingo >> s1; //cout << s1 << endl; // "DATA:" をよむ

//これは、不要。lingo >>s2; cout << s2 << endl; // 空白行の読みとばし

lingo >>s3;// cout << s3 << endl; // "c=" を読む

if(!((0<ctl1 && ctl1<=CTTL) && (0<rtt1 && rtt1<=RTTL))) {
    cout << "rtt1=" << rtt1 << " ctl1=" << ctl1 << " Error 10" << endl;
    return 10;
}

//配列cstに入力
for(j=0;j<ctl1;j++) {lingo >> cst[j];}

//詰め物(ctl1が10の倍数ではない時のみ)
if(ctl1 % 10 != 0) {
    for(j=ctl1+1;j<=10*ceil(ctl1, 10);j++) {cst[j]=-1;}
}

lingo >> s1;// ";" をs1に読む

//Gの初期値設定
for(j=0;j<ctl1;j++) {
    for(i=0;i<ceil(rtt1, 32);i++) {G[j][i]=0;}
}

if(rtt1%32!=0) {
    ww = UINT_MAX >> (rtt1 % 32); //UINT_MAXは<limits.h>の宣言が必要
    for(j=0;j<ctl1;j++) {G[j][rtt1/32] |=ww;}
}

for(i=0;i<rtt1;i++) {if(i==0) {lingo >> s1;} //s1に"A="を読む
for(j=0;j<ctl1;j++) {
    lingo >> ww;
    if(ww==1) {
        ww=(ww<<(31-i%32));
        G[j][i/32] |=ww;
    } //if end
} //for j end
} //for i end

lingo >> s1; //";"

lingo >> s2; // "ENDDATA"

```

Lingo2fp_out.cpp
lingo >> s3; //”END”

```
//cstのfp_out.txtへの出力
for(j=0;j<ceil(cttl, 10);j++) {
    fpout << cst[10*j+0] << ',' << cst[10*j+1] << ',' ;
    << cst[10*j+2] << ',' << cst[10*j+3] << ',' ;
    << cst[10*j+4] << ',' << cst[10*j+5] << ',' ;
    << cst[10*j+6] << ',' << cst[10*j+7] << ',' ;
    << cst[10*j+8] << ',' << cst[10*j+9] << endl;
}
```

```
for(j=0;j<cttl;j++) {
    for(i=0;i<ceil(rttl, 32);i++) {// iワード目
        fpout << G[j][i] << endl;
    }
}
```

```
lingo.close();
fpout.close();

cout << "正常終了しました。" << endl;
getch();
int check_key;
cout << "終了:" ;
cin >> check_key;
cout << check_key;
return 0;

}//main end
```

```
int ceil(int a, int b)
{
if(a % b) return a/b +1;
return a/b;
}
```

```
int floor(int a, int b)
{
return a/b;
}
```