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scan.h

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/*****
 * File: scan.h      Project by: David Hodgdon *
 * Class: ECE476    Instructor: Bruce Land  *
 *****/
#ifndef SCAN_H
#define SCAN_H
#include <stdio.h>
#define fname "test/mary.bas"

enum ScanSymbol{ScanIdent, ScanNum, ScanStr, ScanEOF, ScanEOL, ScanPlus, ScanMin
us, ScanTimes, ScanDiv, ScanExpon, ScanNewStatement, /*ScanAssign,*/
             ScanIntegerVar, ScanRealVar, ScanStringVar,
             ScanComma, ScanLeftParen, ScanRightParen, ScanSemicolon,
             ScanEqual, ScanLessThanEqual, ScanGreaterThanEqual, ScanGreaterThan, Sca
nLessThan, ScanNotEqual,
             ScanAND, ScanOR, ScanNOT,
             ScanFOR, ScanGOSUB, ScanNEXT, ScanSTEP, ScanGOTO, ScanIF, ScanTHEN, Scan
TO,
             ScanDATA, ScanREAD, ScanLET, ScanPRINT, ScanREM, ScanINPUT,
             ScanINT, ScanDIM, ScanLEN, ScanRAND, ScanREAL, ScanSND, ScanHOME};

extern float scanRealValue; // floating point number appearing in code
extern int scanIntValue; // integer value appearing in code +-32K
, 16bit integer
extern char scanIsFloat; // 1=number is FP, 0=number is INT
extern char equalCount; // must be reset to ZERO for each "line"!!!!!!

extern char c, cBackup; // current character in code

#ifndef ATMEL
extern FILE *f; extern FILE *fBackup; // file pointer, only fo
r testing on PC
#endif

#define TEMPLEN 60
extern char tempStr[TEMPLEN+1];

void ScanSkipLine();
void ScanInit();
void ScanClose();
enum ScanSymbol ScanGetSymbol();
#ifndef ATMEL
void ScanError(flash char * err);
#else
void ScanError(char * err);
#endif

#ifndef ATMEL
void ScanReopenForATMEL();
#endif

#ifndef ATMEL
void ScanDebug(flash char *err);
#else
void ScanDebug(char *err);
#endif
#endif

```