

atoi()

In the C Programming Language, the `atoi` function converts a string to an integer. The `atoi` function skips all white-space characters at the beginning of the string, converts the subsequent characters as part of the number, and then stops when it encounters the first character that isn't a number.

strcmp()

The C library function `int strcmp(const char str1, const char str2)` compares the string pointed to, by `str1` to the string pointed to by `str2`.

- The `strcmp()` function compares two strings and returns 0 if both strings are identical.
- `int strcmp (const char* str1, const char* str2);`
- The `strcmp()` function takes two strings and returns an integer.
- The `strcmp()` compares two strings character by character.
- It is defined in the **string.h** header file.

Lex

Specify all pattern matching rule.

Yacc

Specify Grammar rules.

Yacc reads the grammar descriptions in `file.y` and generates a parser,

Intro to Lex and Yacc

Yacc reads the grammar descriptions in `bas.y` and generates a parser, function `yyparse`, in file `y.tab.c`. Included in file `bas.y` are token declarations. The `-d` option causes yacc to generate definitions for tokens and place them in file `y.tab.h`. Lex reads the pattern descriptions in `bas.l`, includes file `y.tab.h`, and generates a lexical analyzer, function `yylex`, in file `lex.yy.c`.

Finally, the lexer and parser are compiled and linked together to form the executable,