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#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>

char keywords[32][10] = {
    "auto", "break", "case", "char", "const", "continue", "default", "do", "double",
    "else", "enum", "extern", "float", "for", "goto", "if", "int", "long",
    "register", "return", "short", "signed", "sizeof", "static", "struct", "switch",
    "typedef", "union", "unsigned", "void", "volatile", "while"
};

int isKeyword(char *word) {
    for(int i = 0; i < 32; i++) {
        if(strcmp(word, keywords[i]) == 0)
            return 1;
    }
    return 0;
}

int isOperator(char ch) {
    return (ch == '+' || ch == '-' || ch == '*' || ch == '/' ||
            ch == '=' || ch == '<' || ch == '>' || ch == '!');
}

int main() {
    char ch, buffer[100];
    FILE *fp;
    int i, j = 0;

    fp = fopen("input.txt", "r");
    if(fp == NULL) {
        printf("Cannot open file.\n");
        exit(0);
    }

    while((ch = fgetc(fp)) != EOF) {
        if(isalnum(ch)) {
            buffer[j++] = ch;
        } else if((ch == ' ' || ch == '\n' || ch == '\t') && (j != 0)) {
            buffer[j] = '\0';
            j = 0;

            if(isKeyword(buffer))
                printf("Keyword: %s\n", buffer);
            else
                printf("Identifier: %s\n", buffer);
        } else if(isOperator(ch)) {
            printf("Operator: %c\n", ch);
        }
    }

    fclose(fp);
}

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    return 0;  
}
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