1. Cloud Strike

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>
#define MAX_LENGTH 100

int ppassword(char *password) {
    int total = 0, i, u = 0, l = 0, d = 0, s = 0;

    if (strlen(password) >= 8)
        total++;

    for (i = 0; password[i] != '\0'; i++) {
        if (isupper(password[i]))
            u = 1;
        else if (islower(password[i]))
            l = 1;
        else if (isdigit(password[i]))
            d = 1;
        else
            s = 1;
    }

    total += u + l + d + s;
    return total;
}
```

```
void vulnerability(char *password) {
    if (strlen(password) < 8)
        printf("Password is too short\n");
    if (strpbrk(password, "ABCDEFGHIJKLMNOPQRSTUVWXYZ") == NULL)
        printf("No uppercase letter\n");
    if (strpbrk(password, "abcdefghijklmnopqrstuvwxyz") == NULL)
        printf("No lowercase letter\n");
    if (strpbrk(password, "0123456789") == NULL)
        printf("No digits\n");
    if (strpbrk(password, "!@#$%^&*()_+{}|:>?<,./;[]\\/-=") == NULL)
        printf("No special character\n");
}

void file() {
    FILE *file = fopen("credential.txt", "r");
    if (!file) {
        printf("Error: Unable to open file.\n");
        return;
    }

    char line[MAX_LENGTH];
    printf("Compromised Credentials:\n");

    while (fgets(line, sizeof(line), file)) {
        char user[MAX_LENGTH], password[MAX_LENGTH];

        if (sscanf(line, "%99[^:]: %99[^\n]", user, password) == 2) {
            printf("User: %s, Password: %s\n", user, password);
            printf("Password Strength: ");
            int total = ppassword(password);
            printf(total <= 2 ? "Weak\n" : (total == 3 ? "Moderate\n" : "Strong\n"));

            printf("Identified Vulnerabilities:\n");
            vulnerability(password);
            printf("\n");
        } else {
            printf("Error: Invalid file format.\n");
        }
    }

    fclose(file);
}

int main() {
    file();
    return 0;
}
```