LAB REPORT 实验报告

Lab Title	Random File Access(fseek( ), getc( ))		Lab No.	09
Stud. Name		Major	CST	Class
Student ID		Date		

Lab description/objectives:

Write a C program that will read and display every second character in a file named test.dat.
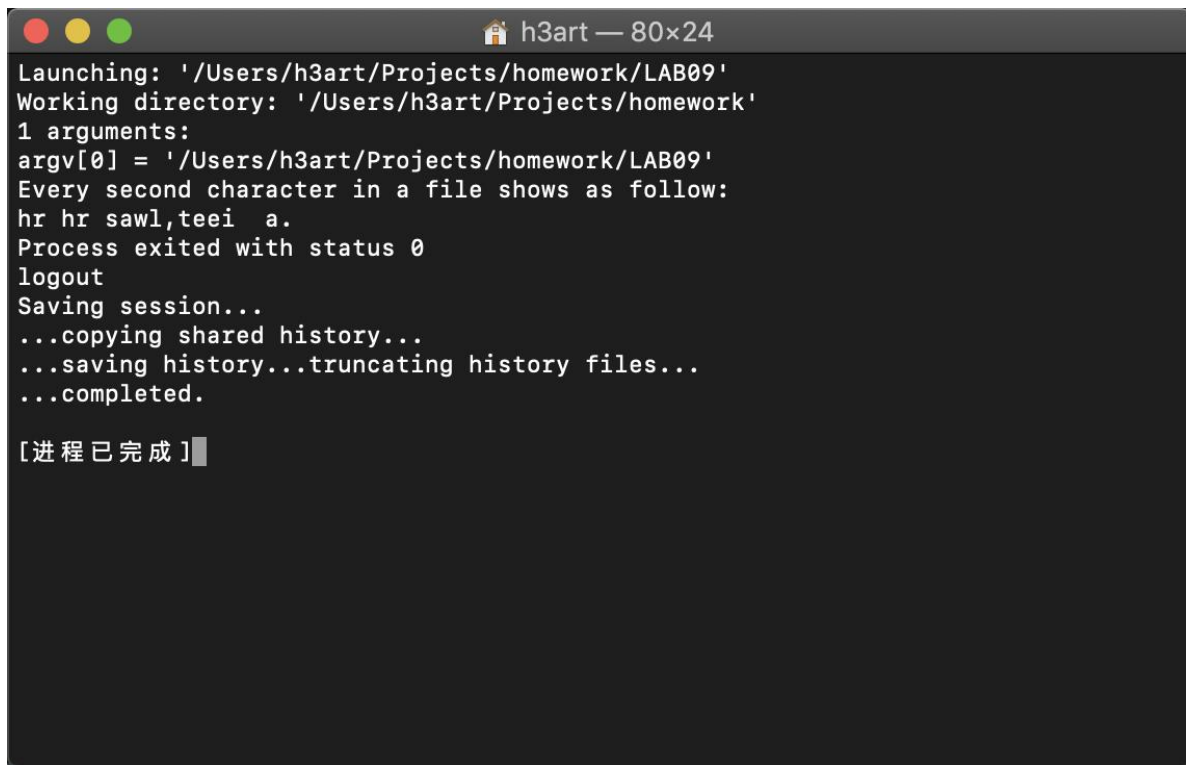
Source code:

```c
#include <stdio.h>
#include <stdlib.h>
int main()
{
    FILE* fp;
    if ((fp = fopen("test.dat", "r")) == NULL) {
        printf("The file is not open correctly.\n");
        printf("Please check that the file exists\n");
        exit(1);
    }
    else {
        int i = 1;
        printf("Every second character in a file shows as follow:\n");
        while (1) {
            fseek(fp, i, SEEK_SET);
            char character = getc(fp);
            if (character == -1) {
                break;
            }
            else {
                putc(character, stdout);
            }
            i += 2;
```

```
        }

        printf("\n");

    }

    fclose(fp);

    return 0;

}
```

Program outputs:

Discussion:

1. **Most difficult parts**

   Get familiar with the usage of function "fseek()".

2. **Bugs and/or Errors**