

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.

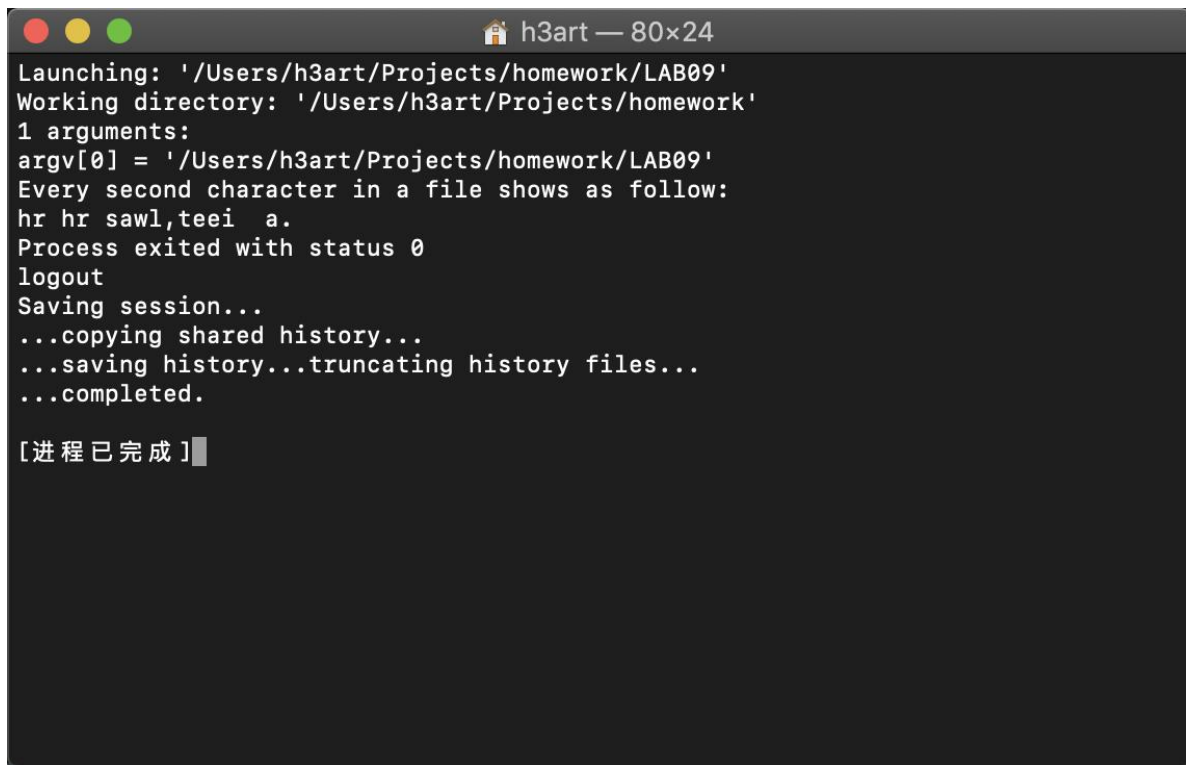
Source code:

```
#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:

```
test.dat — homework  
C LAB09.c  test.dat ×  
test.dat  
1 Where there is a will, there is a way.
```



```
h3art — 80x24  
Launching: '/Users/h3art/Projects/homework/LAB09'  
Working directory: '/Users/h3art/Projects/homework'  
1 arguments:  
argv[0] = '/Users/h3art/Projects/homework/LAB09'  
Every second character in a file shows as follow:  
hr hr sawl,teei a.  
Process exited with status 0  
logout  
Saving session...  
...copying shared history...  
...saving history...truncating history files...  
...completed.  
[进程已完成]
```

Discussion:

1. Most difficult parts

Get familiar with the usage of function “fseek()”.

2. Bugs and/or Errors