LAB REPORT 实验报告

Lab Title	if-else-if statement			Lab No.	03	
Stud. Name		Major	Computer	Science & Technology	Class	
Student ID						

Lab description/objectives:

Based on an automobile's model year and weight, the state of New Jersey determines the car's weight class and registration fee using the following schedule:

Model Year	Weight	Weight Class	Fee
Registration			
1970 or earlier	less than 2,700 ,lbs	1	\$16.50
	2,700 to 3,800lbs	2	25.50
	more than 3,800 lbs	3	46.50
1971 to 1979	less than 2,700 lbs	4	27.00
	2,700 to 3,800 lbs	5	30.50
	more than 3,800 lbs	6	52.50
1980 or later	less than 3,500 lbs	7	35.50
	3,500 or more lbs	8	65.50

Using this information, write a C program that accepts the year and weight of an automobile and determines and displays the weight class and registration fee for the car.

```
Source code:
#include <stdio.h>
int main() {
  int year, weight;
  scanf("%d %d", &year, &weight);
  if (year \le 1970)  {
    if (weight < 2700) {
       printf("%d $%.2f", 1, 16.50);
    } else if (weight <= 3800) {
      printf("%d $%.2f", 2, 25.50);
    } else {
       printf("%d $%.2f", 3, 46.50);
  } else if (year >= 1980) {
    if (weight < 3500) {
       printf("%d $%.2f", 7, 35.50);
    } else {
       printf("%d $%.2f", 8, 65.50);
  } else {
    if (weight < 2700) {
      printf("%d $%.2f", 4, 27.00);
    } else if (weight <= 3800) {
       printf("%d $%.2f", 5, 30.50);
    } else {
       printf("%d $%.2f", 6, 52.50);
  return 0;
```

Program outputs: 🁚 h3art — 80×24 Launching: '/Users/h3art/Projects/homework/LAB03' Working directory: '/Users/h3art/Projects/homework' 1 arguments: argv[0] = '/Users/h3art/Projects/homework/LAB03' 1949 2500 1 \$16.50Process exited with status 0 logout Saving session... ...copying shared history... ...saving history...truncating history files... ...completed. Deleting expired sessions...10 completed. [进程已完成] 🁚 h3art — 80×24 Launching: '/Users/h3art/Projects/homework/LAB03' Working directory: '/Users/h3art/Projects/homework' 1 arguments: argv[0] = '/Users/h3art/Projects/homework/LAB03' 1965 3700 2 \$25.50Process exited with status 0 logout Saving session... ...copying shared history... ...saving history...truncating history files... ...completed.

```
hisart—80×24

Launching: '/Users/h3art/Projects/homework/LAB03'
Working directory: '/Users/h3art/Projects/homework'
1 arguments:
argv[0] = '/Users/h3art/Projects/homework/LAB03'
1969 4800
3 $46.50Process exited with status 0
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
```

```
Launching: '/Users/h3art/Projects/homework/LAB03'
Working directory: '/Users/h3art/Projects/homework'

1 arguments:
argv[0] = '/Users/h3art/Projects/homework/LAB03'
1976 2500

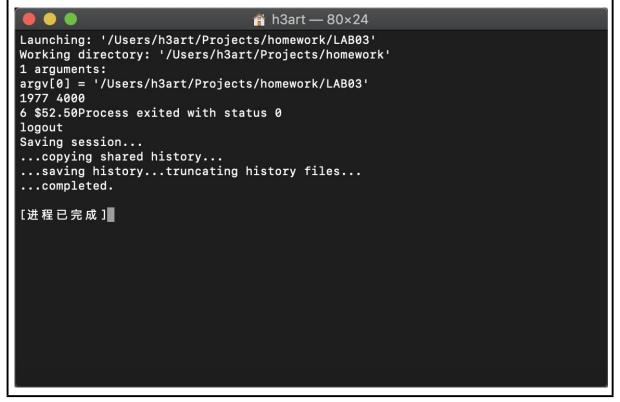
4 $27.00Process exited with status 0
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
```

```
Launching: '/Users/h3art/Projects/homework/LAB03'
Working directory: '/Users/h3art/Projects/homework'

1 arguments:
argv[0] = '/Users/h3art/Projects/homework/LAB03'

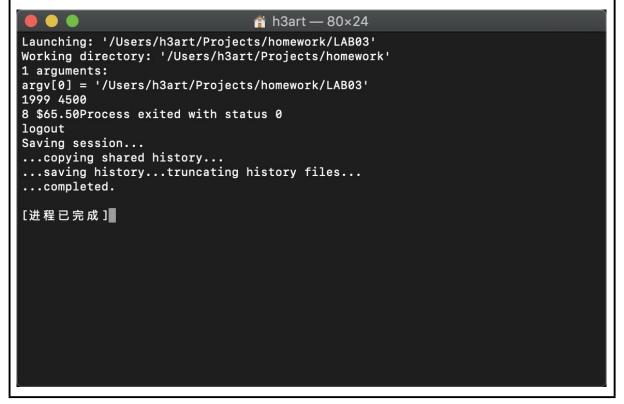
1978 3500

5 $30.50Process exited with status 0
logout
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
```



```
Launching: '/Users/h3art/Projects/homework/LAB03'
Working directory: '/Users/h3art/Projects/homework'
1 arguments:
argv[0] = '/Users/h3art/Projects/homework/LAB03'
1987 3000
7 $35.50Process 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		

Recognize the relationship among circumstances.

2. Bugs and/or Errors