

## Experiment 1: C program running environment and method

### 1. Purpose of the experiment

- (1) Understand the basic operation methods of the computer system used and learn to use the system independently.
- (2) Learn how to edit, mutate, connect and run a C program on the system.
- (3) By running a simple C program, we have a preliminary understanding of the characteristics of the C source program.

### 2. Experiment content and steps

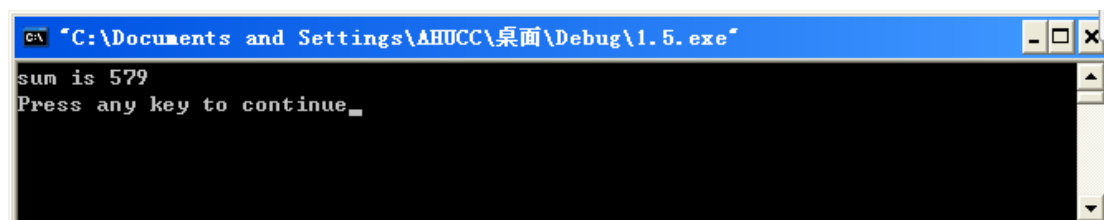
- (1) Check whether the computer system used has installed the C compiler system and determine its subdirectory.
- (2) Enter the C compilation integration environment used.
- (3) Be familiar with the interface of the integrated environment and the use of relevant menus.
- (4) Enter and run a simple and correct program

```
#include <stdio.h>
int main()
{
    printf("this is a C program.\n");
    printf("Hello world!\n");
    return 0;
}
```



- (5) Enter and edit a C program with errors

```
#include <stdio.h>
int main()
{
    int a,b,sum;
    a=123;b=456;
    sum=a+b;
    printf("sum is %d\n",sum);
    return 0;
}
```



(6) Enter and run a program that needs to input data at runtime

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int max(int x,int y);
```

```
    int a,b,c;
```

```
    printf("input a&b:");
```

```
    scanf("%d,%d",&a,&b);
```

```
    c=max(a,b);
```

```
    printf("max=%d\n",c);
```

```
    return 0;
```

```
}
```

```
int max(int x,int y)
```

```
{
```

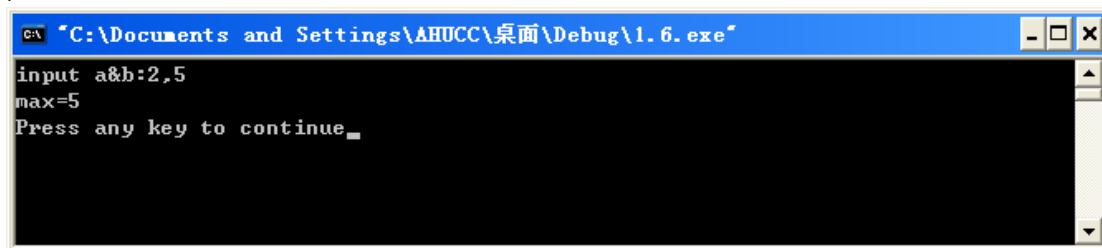
```
    int z;
```

```
    if (x>y) z=x;
```

```
    else z=y;
```

```
    return (z);
```

```
}
```



Merge the 3rd and 4th lines in the max function into one line



(7) Run a program written by yourself. The title is the sixth in the first chapter of the textbook. That is, input a, b and c, and output the largest one.

Method 1:

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a,b,c,max;
```

```
    printf("please input a,b,c:\n");
```

```
    scanf("%d,%d,%d",&a,&b,&c);
```

```

    max=(a>b)?a:b;
    max=(max>c)?max:c;
    printf("the biggest number is %d\n",max);
    return 0;
}

```

Method 2:

```

#include <stdio.h>
int main()
{
    int a,b,c,max;
    printf("please input a,b,c:\n");
    scanf("%d,%d,%d",&a,&b,&c);
    if (a>b) max=a;
    else max=b;
    if (max<c) max=c;
    printf("The largest number number is %d\n",max);
    return 0;
}

```

Method 3:

```

#include <stdio.h>
int main()
{
    int a,b,c,max;
    printf("please input a,b,c:\n");
    scanf("%d,%d,%d",&a,&b,&c);
    max=a;
    if (max<b)
        max=b;
    if (max<c)
        max=c;
    printf("The largest number is %d\n",max);
    return 0;
}

```



```

C:\ "C:\Documents and Settings\AHUCC\桌面\Debug\1.7.exe"
please input a,b,c:
211,985,100
the biggest number is 985
Press any key to continue_

```