

```
HWS.c
HWS (全局范围)
1  #include <stdio.h>
2
3  int main()
4  {
5      char a;
6      int num = 0;
7      int word=1;
8      printf("Enter a sentence:");
9
10     while ((a = getchar()) != '\n')
11     {
12         if (a != ' ')
13         {
14             num++;
15         }
16         else
17         {
18             word++;
19         }
20     }
21     printf("Average word length: %.1f", (float)num/word);
22
23     return 0;
24 }
```

Microsoft Visual Studio 调试控制台

Enter a sentence:It was deja vu all over again.
Average word length:3.4
D:\Project\C Programming Language\Homework\HW5\x64\Debug\HW5.exe (进程 18216)已退出, 代码为 0。
按任意键关闭此窗口。 . . .

```
HW5.c*  [X]
HW5 (全局范围) main()
1 #include <stdio.h>
2
3 // ...
25
26 int main()
27 {
28     int a, b, c, d, numerator, denominator, oper;
29     printf("Enter an equation:");
30     a = getchar() - 48;
31     getchar();
32     b = getchar() - 48;
33     oper = getchar();
34     c = getchar() - 48;
35     getchar();
36     d = getchar() - 48;
37     getchar();
38
39     switch (oper)
40     {
41         case '+': denominator = b * d; numerator = a * d + b * c; break;
42         case '-': denominator = b * d; numerator = a * d - b * c; break;
43         case '*': denominator = b * d; numerator = a * c; break;
44         case '/': denominator = b * c; numerator = a * d; break;
45     }
46     printf("Result: %d/%d", numerator, denominator);
47
48
49     return 0;
50 }
```

Microsoft Visual Studio 调试控制台

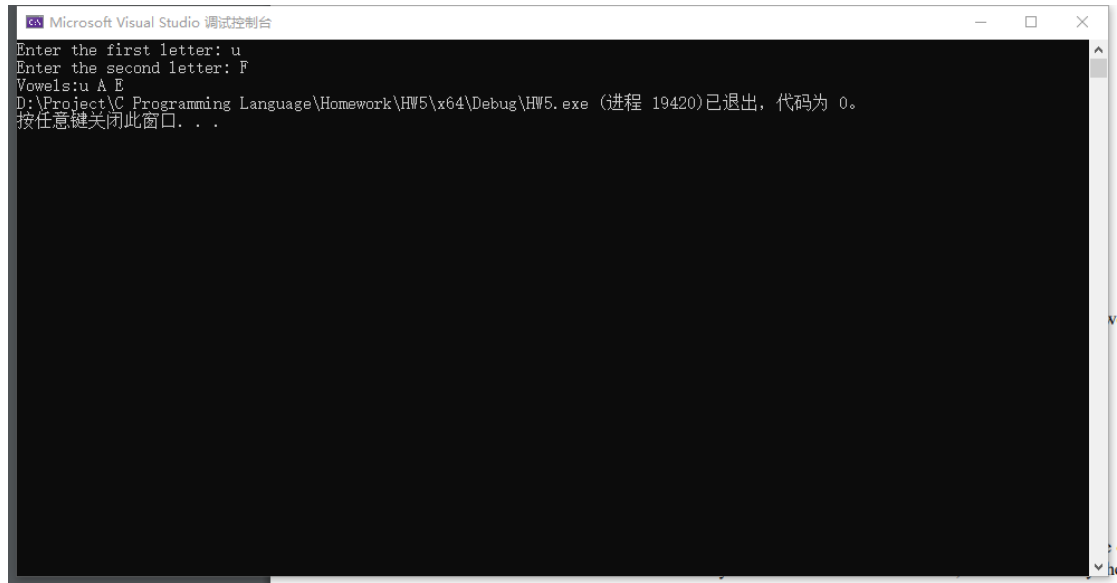
Enter an equation:5/6+3/4
Result: 38/24
D:\Project\C Programming Language\Homework\HW5\x64\Debug\HW5.exe (进程 22444) 已退出, 代码为 0。
按任意键关闭此窗口. . .

4. Write a program that receives two alphabet letters and print out vowels (a, e, i, o, and u)

```
Microsoft Visual Studio 调试控制台
Enter an equation:5/6*3/4
Result: 15/24
D:\Project\C Programming Language\Homework\HW5\x64\Debug\HW5.exe (进程 21184)已退出, 代码为 0。
按任意键关闭此窗口...
```

```
HW5.c* x
HW5 (全局范围) main()
1 #include <stdio.h>
2
3 // ...
25
26 // ...
51
52 int main()
53 {
54     char fl, sl;
55     printf("Enter the first letter: ");
56     fl=getchar();
57     getchar();
58     printf("Enter the second letter: ");
59     sl = getchar();
60     char i = 0;
61     printf("Vowels:");
62     if (fl > sl)
63     {
64         for (i = fl; i <= 122; i++)
65         {
66             if(i=='A' || i=='E' || i=='I' || i=='O' || i=='U' || i=='a' || i=='e' || i=='i' || i=='o' || i=='u')
67                 printf("%c ", i);
68         }
69         for (i = 65; i <= sl; i++)
70         {
71             if (i == 'A' || i == 'E' || i == 'I' || i == 'O' || i == 'U' || i == 'a' || i == 'e' || i == 'i' || i == 'o' || i == 'u')
72                 printf("%c ", i);
73         }
74     }
```

```
        for (i = 65; i <= sl; i++)
        {
            if (i == 'A' || i == 'E' || i == 'I' || i == 'O' || i == 'U' || i == 'a' || i == 'e' || i == 'i' || i == 'o' || i == 'u')
                printf("%c ", i);
        }
    }
    else
    {
        for (i = fl; i <= sl; i++)
        {
            if (i == 'A' || i == 'E' || i == 'I' || i == 'O' || i == 'U' || i == 'a' || i == 'e' || i == 'i' || i == 'o' || i == 'u')
                printf("%c ", i);
        }
    }
    return 0;
}
```



A screenshot of a Microsoft Visual Studio debug console window. The window title is "Microsoft Visual Studio 调试控制台". The console output shows the following text: "Enter the first letter: u", "Enter the second letter: F", "Vowels:u A E", and "D:\Project\C Programming Language\Homework\HW5\x64\Debug\HW5.exe (进程 19420)已退出, 代码为 0." followed by "按任意键关闭此窗口. . .". The console background is black with white text. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
Microsoft Visual Studio 调试控制台
Enter the first letter: u
Enter the second letter: F
Vowels:u A E
D:\Project\C Programming Language\Homework\HW5\x64\Debug\HW5.exe (进程 19420)已退出, 代码为 0。
按任意键关闭此窗口. . .
```