

#第15周-17377191-段秋阳

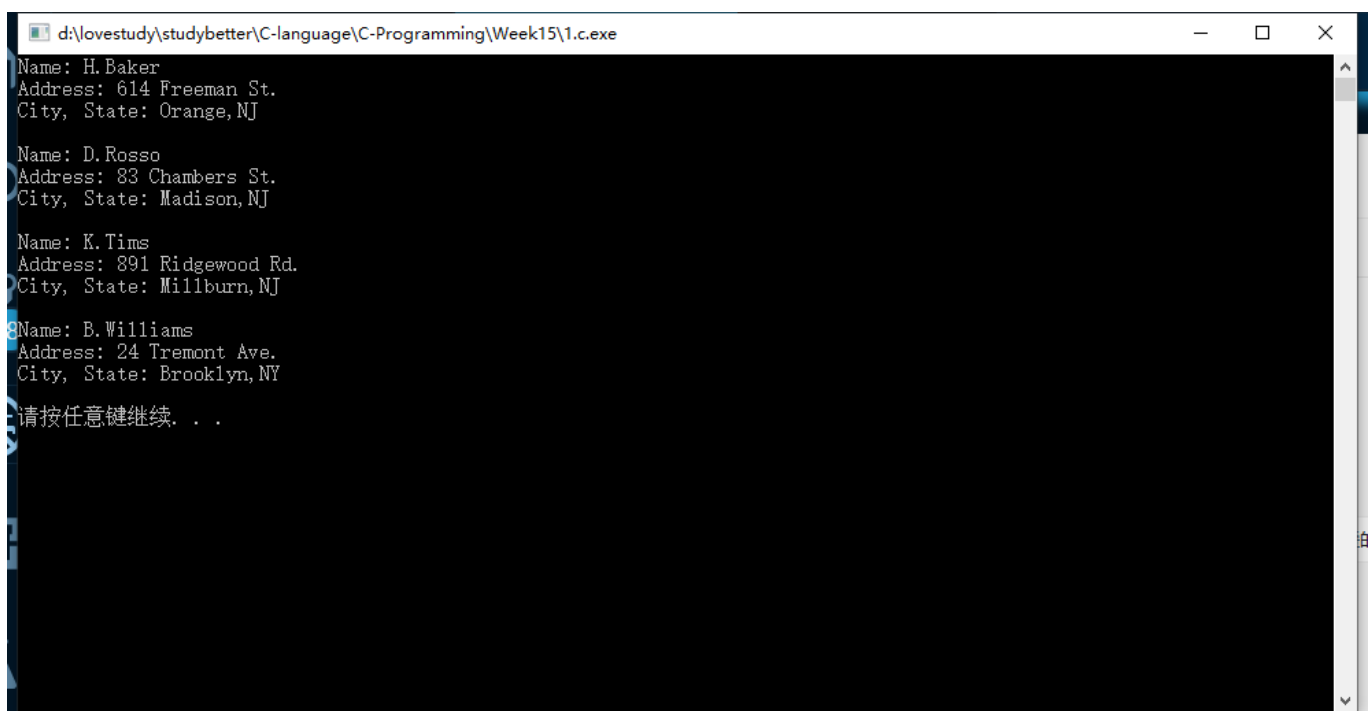
1. P391, 5 (建议逐个字符读)

```
//P391 5
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main()
{
    FILE *fp = NULL;
    fp = fopen("1.txt", "r");
    char line[100];
    const char sep[] = ",";

    for (int i = 0; i < 4; i++)
    {
        fgets(line, sizeof(line), fp);
        printf("Name: %s\n", strtok(line, sep));
        printf("Address: %s\n", strtok(NULL, sep));
        printf("City, State: %s\n", strtok(NULL, "\n"));
        printf("\n");
    }

    system("pause");
    return fclose(fp);
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week15\1.c.exe
Name: H.Baker
Address: 614 Freeman St.
City, State: Orange,NJ

Name: D.Rosso
Address: 83 Chambers St.
City, State: Madison,NJ

Name: K.Tims
Address: 891 Ridgewood Rd.
City, State: Millburn,NJ

Name: B.Williams
Address: 24 Tremont Ave.
City, State: Brooklyn,NY

请按任意键继续. . .
```

2. P392, 6

```
//P392,6
#include <stdio.h>
#include <stdlib.h>

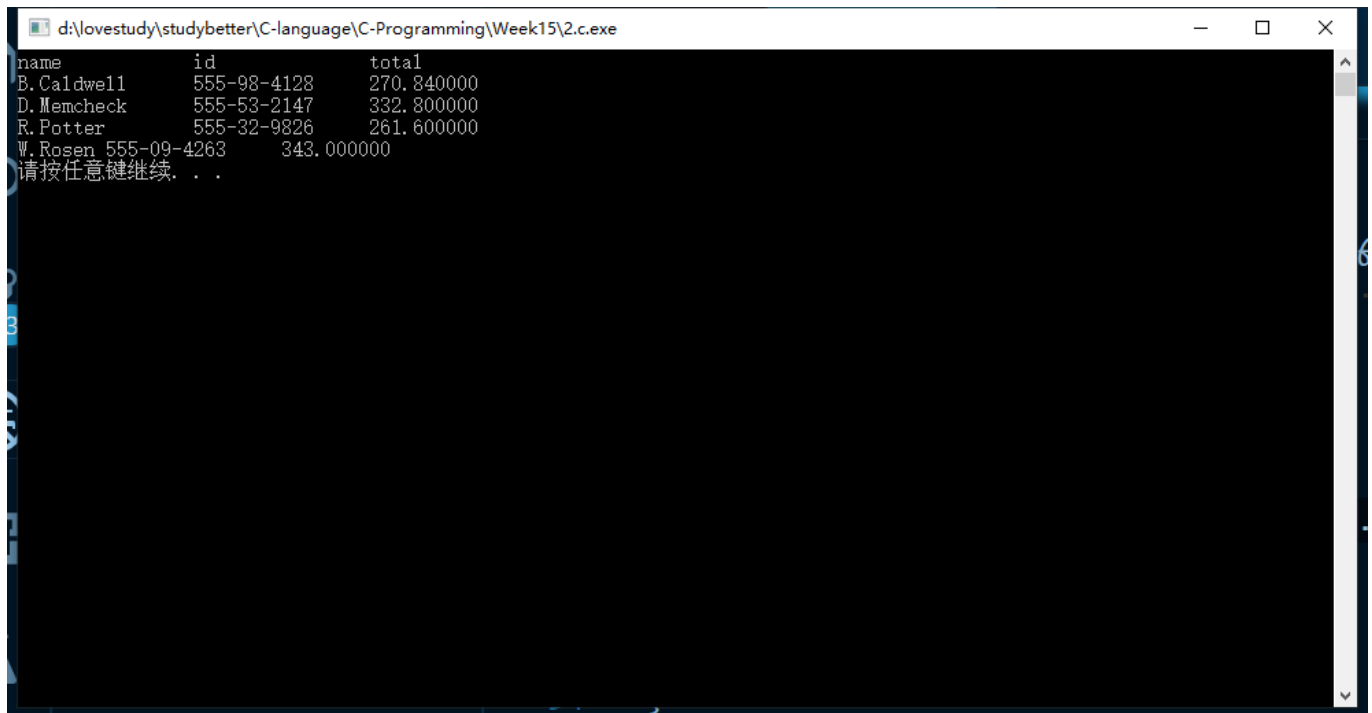
typedef struct
{
    char name[20];
    char id[20];
    double perHour;
    int time;
    double total;
} Info;

int main()
{
    FILE *fp;
    fp = fopen("2.txt", "r");
    Info info[4];

    for (int i = 0; i < 4; i++)
    {
        char line[100];
        fgets(line, sizeof(line), fp);
        sscanf(line, "%s %s %lf %d", info[i].name, info[i].id,
&info[i].perHour, &info[i].time);
        info[i].total = info[i].perHour * info[i].time;
    }

    printf("name\t\tid\t\ttotal\n");
    for (int i = 0; i < 4; i++)
        printf("%s\t%s\t%lf\n", info[i].name, info[i].id, info[i].total);

    system("pause");
    return fclose(fp);
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week15\2.c.exe
name      id      total
B. Caldwell 555-98-4128 270.840000
D. Memcheck 555-53-2147 332.800000
R. Potter  555-32-9826 261.600000
W. Rosen 555-09-4263 343.000000
请按任意键继续...
```

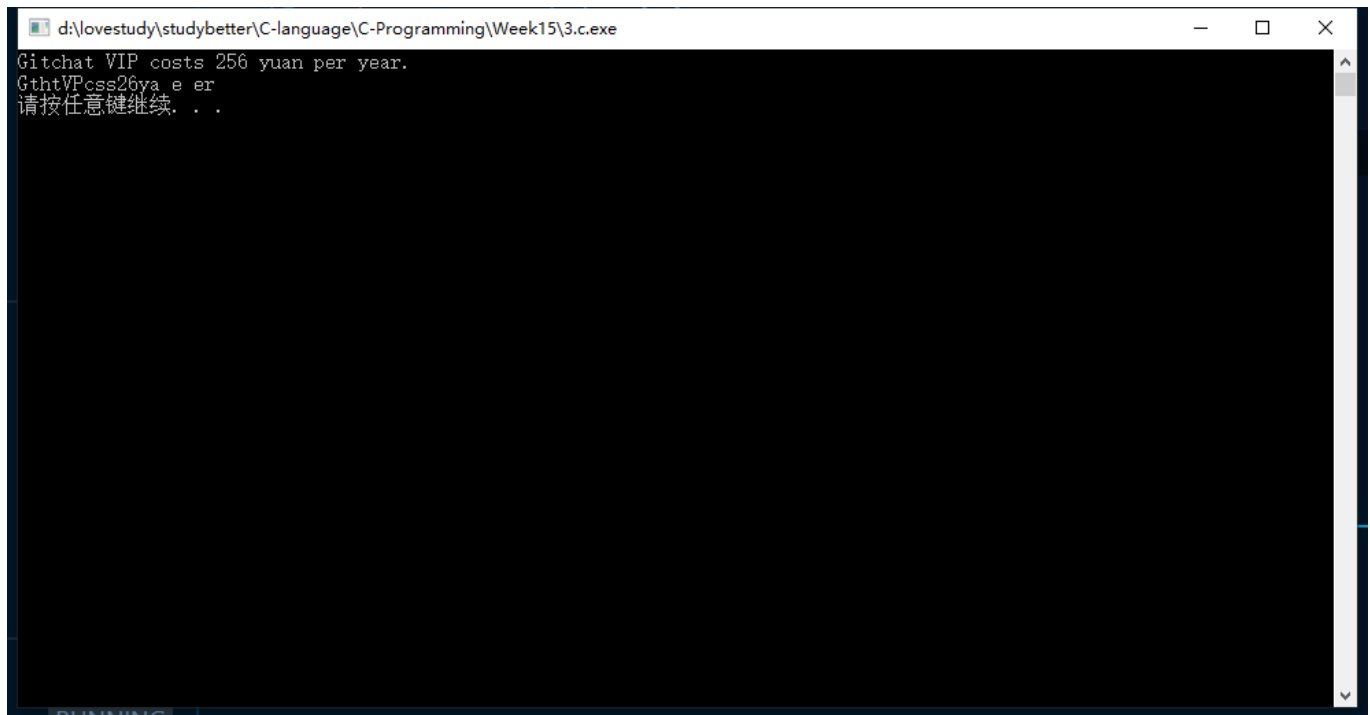
3. P395, 3

```
//P395,3
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE *fp;
    char c;
    fp = fopen("text.dat", "r");

    while ((c = fgetc(fp)) != EOF)
        putchar(c);
    printf("\n");

    rewind(fp);
    while ((c = fgetc(fp)) != EOF)
    {
        putchar(c);
        fseek(fp, 1L, SEEK_CUR);
    }
    printf("\n");
    system("pause");
    return 0;
}
```



4. P407, 4

```
//P407,4
#include <stdio.h>
#include <stdlib.h>

int main()
{
    char fileName[] = "Pollen.dat";
    int cnt, counts[10], total = 0;
    double oldAvg, newAvg;
    FILE *fp;

    printf("Plz enter a new pollen count: ");
    scanf("%d", &cnt);

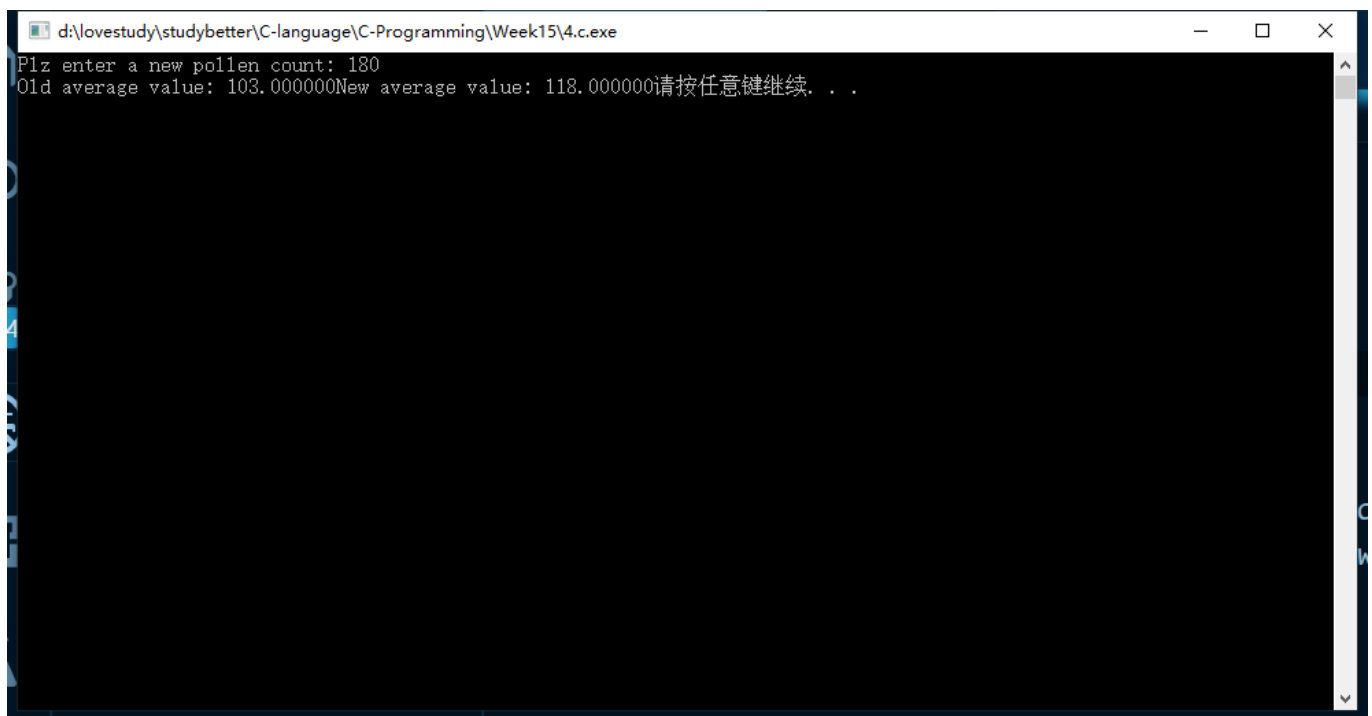
    fp = fopen(fileName, "r");
    for (int i = 0; i < 10; i++)
    {
        fscanf(fp, "%d", &counts[i]);
        total += counts[i];
    }
    fclose(fp);

    oldAvg = total / 10;
    total = total - counts[0] + cnt;
    newAvg = total / 10;
    for (int i = 0; i < 9; i++)
        counts[i] = counts[i + 1];
    counts[9] = cnt;

    fp = fopen(fileName, "w");
```

```
    for (int i = 0; i < 10; i++)
        fputc(counts[i], fp);
    fclose(fp);

    printf("Old average value: %lf", oldAvg);
    printf("New average value: %lf", newAvg);
    system("pause");
    return 0;
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week15\4.c.exe
Plz enter a new pollen count: 180
Old average value: 103.000000New average value: 118.000000请按任意键继续. . .
```

5. 实现程序将文本文件倒序输出到新的文件。

```
//reverse text
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main()
{
    FILE *inFile, *outFile;
    char oriTxt[100], revTxt[100], ch;
    long offset = 0;

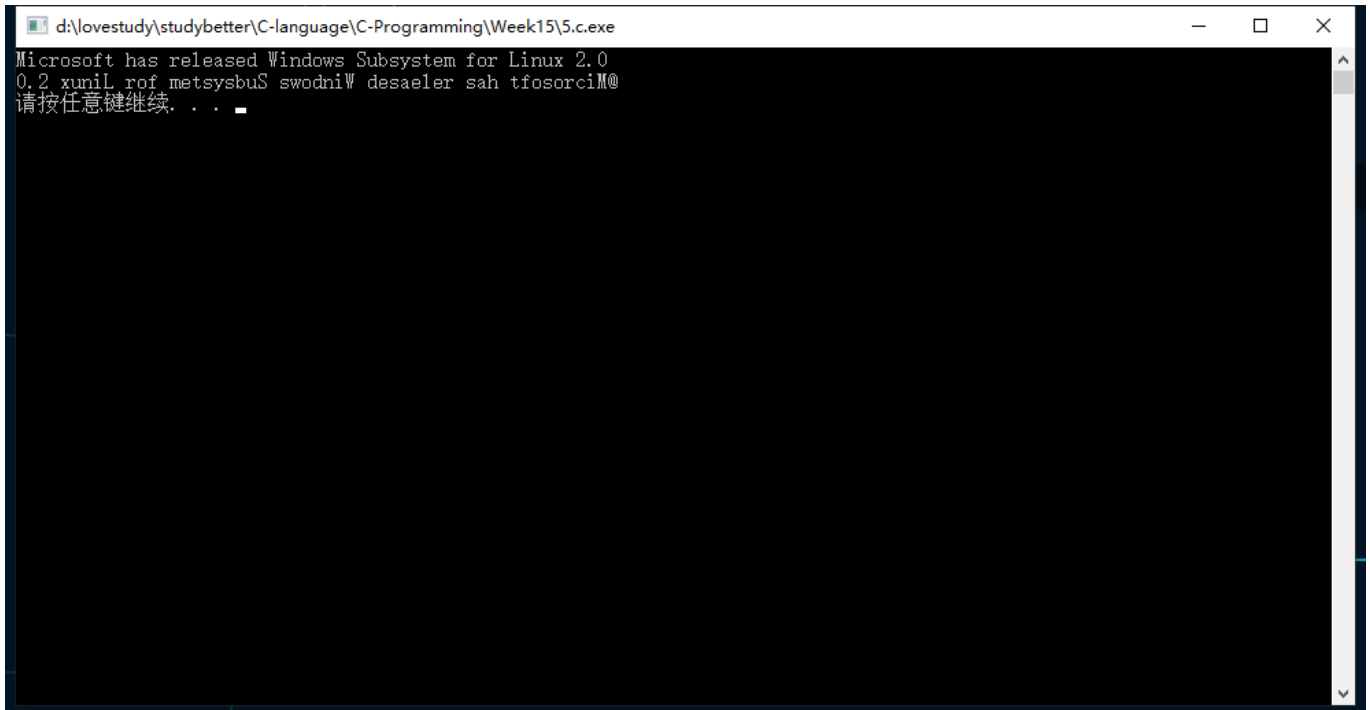
    inFile = fopen("5.txt", "r");
    fgets(oriTxt, sizeof(oriTxt), inFile);
    puts(oriTxt);

    for (int i = strlen(oriTxt) - 1; i >= 0; i--)
        revTxt[strlen(oriTxt) - 1 - i] = oriTxt[i];
    puts(revTxt);
    outFile = fopen("rev.txt", "w");
```

```
fputs(revTxt, outFile);

fclose(inFile);
fclose(outFile);

system("pause");
return 0;
}
```



6. 《现代方法第2版》 P416, 3

```
// 《现代方法》 P416, 3
#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
    FILE *fp;
    char ch;
    int flag = 0;

    for (int i = 0; i < argc; i++)
    {
        fp = fopen(argv[i], "r");
        if (fp)
        {
            flag = 1;
            while ((ch = fgetc(fp)) != EOF)
                putchar(ch);
        }
    }
}
```

```

printf("\n");
if (flag)
{
    printf("Success!\n");
    return EXIT_SUCCESS;
}
else
{
    printf("No file opened!\n");
    return EXIT_FAILURE;
}
}

```

```

D:\lovestudy\studybetter\C-language\C-Programming\Week15>6.c.exe 1.txt 2.txt 5.txt
MZ  H.Baker,614 Freeman St.,Orange,NJ
D.Rosso,83 Chambers St.,Madison,NJ
K.Tims,891 Ridgewood Rd.,Millburn,NJ
B.Williams,24 Tremont Ave.,Brooklyn,NY
B.Caldwell 555-98-4128 7.32 37
D.Memcheck 555-53-2147 8.32 40

```

unch (GDB) (Week15) Server not selected POWER MODE!!! Combo: 13 Ln 18, Col 29 Spaces: 4 UTF-8

7. 《现代方法第2版》 P418, 17

```

// 《现代方法》 P418,17
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>

int main(int argc, char *argv[])
{
    FILE *fp;
    char line[20], tel[20], top;

    if (argc)
    {
        fp = fopen(argv[1], "r");

        while (!feof(fp))
        {
            // memset(tel, 0, 20);
            fgets(line, sizeof(line), fp);
            top = -1;
            for (int i = 0; i < strlen(line); i++)
            {
                // if ('0' < line[i] < '9' || line[i] == '0' || line[i] ==
                '9')
                if (isdigit(line[i]))
                    tel[++top] = line[i];
            }
        }
    }
}

```

```

        }
        printf("(%c%c%c) %c%c%c-%c%c%c%c\n", tel[0], tel[1], tel[2],
tel[3], tel[4], tel[5], tel[6], tel[7], tel[8], tel[9]);
    }
}
else
{
    printf("Need a file name!\n");
    exit(EXIT_FAILURE);
}

system("pause");
return 0;
}

```

```
D:\lovestudy\studybetter\C-language\C-Programming\Week15>g++ 7.c -o 7.exe
```

```
D:\lovestudy\studybetter\C-language\C-Programming\Week15>7.exe 7.txt
```

```
(404) 817-6900
```

```
(215) 686-1776
```

```
(312) 746-6000
```

```
(877) 275-5273
```

```
(617) 343-4200
```

```
请按任意键继续 . . .
```

8. 《现代方法第2版》 P416, 6

```

// 《现代方法》 P416, 6
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>
#define LEN 10

int min(int, int);

int main(int argc, char *argv[])
{
    FILE *fp;
    long cur = 0L;
    char buf[LEN];

    if (argc != 2)
    {
        printf("Missing file name!\n");
        exit(EXIT_FAILURE);
    }

    fp = fopen(argv[1], "rb");
    printf("Offset          Bytes

```



```

Characters\n");
    printf("-----
\n");

    while (!feof(fp))
    {
        cur = ftell(fp);
        printf("%d\t", cur);
        int n = fread(buf, sizeof(char), LEN, fp);
        if (n <= LEN)
        {
            for (int i = 0; i < min(LEN, n); i++)
                printf("%02X ", buf[i]);
            printf("\t\t\t");
            for (int i = 0; i < min(LEN, n); i++)
                if (isprint(buf[i]))
                    putchar(buf[i]);
                else
                    putchar('.');
            printf("\n");
        }
    }

    system("pause");
    return fclose(fp);
}

int min(int a, int b)
{
    return (a < b) ? a : b;
}

```

D:\lovestudy\studybetter\C-language\C-Programming\Week15>g++ 8.c -o 8.exe

D:\lovestudy\studybetter\C-language\C-Programming\Week15>8.exe pun.c

Offset	Bytes	Characters
0	23 69 6E 63 6C 75 64 65 20 3C	#include <
10	73 74 64 69 6F 2E 68 3E 0D 0A	stdio.h>..
20	0D 0A 69 6E 74 20 6D 61 69 6E	..int main
30	28 76 6F 69 64 29 0D 0A 7B 0D	(void)..{.
40	0A 20 20 20 20 70 72 69 6E 74	. print
50	66 28 22 54 6F 20 43 2C 20 6F	f("To C, o
60	72 20 6E 6F 74 20 74 6F 20 43	r not to C
70	3A 20 74 68 61 74 20 69 73 20	: that is
80	74 68 65 20 71 75 65 73 74 69	the questi
90	6F 6E 2E 5C 6E 22 29 3B 0D 0A	on.\n");..
100	20 20 20 20 72 65 74 75 72 6E	return
110	20 30 3B 0D 0A 7D 0D 0A	0;..}..

请按任意键继续 . . .