

课后练习题答案

Chapter 1

1.1 $\times \checkmark \times \checkmark \checkmark \times \checkmark \times \times \checkmark$

1.2 b c

1.3 ad

1.4 semicolon printf math.h \n

Chapter 2

2.1 $\times \checkmark \times \times \checkmark \checkmark \times \checkmark \times \times \checkmark \times$

2.2 typedef 255 external const

Chapter 3

3.1 $\times \checkmark \times \times \checkmark \checkmark \times \times \times \checkmark \checkmark \checkmark$

3.2 integer modula 6 logical sizeof paratheses typeconversion precedence

3.3 F F T F F F

3.4 F T T T F

3.5 (b) (c)

3.6 0 -2 7 10.25 false 3 3 1

3.10 0 1 1 1 1

3.11

d

}

100

3.12

110

111

3.13 1

3.14 200

3.15 $x \leq y$

3.16 TRUE

3.19

2

1

4

3.20

-40

40

Chapter 4

4.1 $\times \checkmark \checkmark \checkmark \checkmark \checkmark \times \times \checkmark \checkmark \checkmark \times$

4.2 %hd %x ctype.h %l %*d [^] blank 6 - %e

4.4 (a) scanf(“%d %c %d”, &a, &b, &c); (b) scanf(“%d %f %s”, &a, &b, &c);

(c) scanf(“%d-%d-%d”, &a, &b, &c); (d) scanf(“%d %s %d”, &a, &b, &c);

- 4.5 (a) 10x1.230000 (b) 1234x 1.23 (c) 1234 456.000000 (d) “123.40 ”
 (e) 1020 1222(乱码)
 4.7 (a) 1988 x (b)乱码 (c) 120 乱码 (d) 乱码 x
 4.8 (a) 1275 -235.740000
 (b) 1275
 -235.740000
 (c) 0 0.000000
 (d) 1275xxxx-235.74
 (e)Cambridge
 (f)1275 Cambridge
 4.10 1988 无 无

Chapter 5

- 5.1 $\sqrt{\times} \sqrt{\times \times \times \times \times \times} \sqrt{\times}$
 5.2 && switch break if-else x=y
 5.4 (a) x = 2; y = 0; (b) x = 1; y = 0;
 5.5 (a) if (grade <= 59)
 if (grade >= 50)
 second = second + 1;
 (b) if (number > 100) printf(“out of range”);
 else if (number < 0) printf(“out of range”);
 else sum = sum + number;
 (c)
 if (T > 200) printf(“admitted”);
 else if (M > 60)
 {if (M > 60) printf(“admitted”);}
 else printf(“not admitted”);
 5.6 F T F T
 5.8 (a) x > 10 (b) (x != 10) || (y != 5) || (z >= 0)
 (c) (x + y != z) || (z > 5) (d) (x > 5) || (y != 10) || (z >= 5)
 5.9 (a) x = 5; y = 10; z = 1 (b) x = 5; y = 10; z = 1
 (c) x = 5; y = 0; z = 0 (d) 无变化
 5.10 (a) x = 0; y = 2; z = 0; (b) x = 1; y = 2; z = 0;
 5.12 8
 5.13 Delhi Bangalore END
 5.14
 2
 4
 4
 8
 5.15 0 0 2
 5.16 25
 5.17 Number is negative
 5.18 ABC

5.19 10

5.20 无输出

Chapter 6

6.1 $\checkmark \checkmark \checkmark \times \times \checkmark \times \checkmark \checkmark \times$

6.2 n continue infinite indefinite-repetition-loop counter-variable

6.9 (a) 43210 (b)4321 (c)55555...55555(d)10 8

6.11 (a) 无数次 $x = 10; x = 5; x = 10; x = 5; x = 10; \dots$

(b)5次 $m = 3, m = 5, m = 7, m = 9, m = 11$

(c)无数次, i 恒为0

(d)4次 $m = 11 \ n = 9; m = 12 \ n = 11; m = 13, \ n = 13; m = 14, \ n = 15;$

6.13

(a) for (n = 1; n <= 32; n = n * 2) printf("%d ", n);

(b) for (n = 1; n <= 243; n = n * 3) printf("%d ", n);

(c) for (n = -4; n <= 4; n = n + 2) printf("%d ", n);

(d) sum = 0;

```
for (i = 2; i <= 16; i = sum)
{
    sum = sum + i;
    n = n - i;
    printf("%d %d %d \n", i, sum, n);
}
```

6.16 100 90 80 70 60 50 40 30 20 10 0

6.17 $m = 20$ 时陷入死循环, 程序无输出

6.18 1

6.19 1

6.20 死循环, 延长时间用

Chapter 7

7.1 $\checkmark \times \checkmark \times \times \checkmark \checkmark \checkmark \times \times \checkmark$

7.2 index/subscript run-time dynamic multi-dimensional sorting

7.14 15

7.15 HLOWRD

Chapter 8

8.1 $\times \checkmark \checkmark \checkmark \times \checkmark \times \times \checkmark \times \times \times \checkmark \times \checkmark$

8.2 %[a-z,A-Z] strcpy 3 stdlib gets strlen strstr strcmp s1-s2 puts

8.6 (a) The sky is the limit.

(b) The sky is

(c) T

(d) The sky is the limit

(e)84

104

101

32

115

107

121

32

105

115

32

116

104

101

32

108

105

109

105

116

(f) 输出 1 2 3 4 5 6 7 8 9...21 这些 ASCII 码对应的字符，无显示符号

(g)%

(h)U

8.7 (d)

8.8 7

8.9 (a)he(b)heorshe(c)5 7

8.11 pune

Chapter 9

9.1 $\sqrt{\times \times \times} \sqrt{\times \times \times} \sqrt{\sqrt{\times \times \times} \sqrt{\times} \sqrt{\times \times \times}}$

9.2 actual-parameter local-variable int data-type variable-name scope recursive
static type auto

9.8 abceg

9.9 abcdeg

9.12 (a) 5 (b) 4 (c)3 (d)0

9.13 (a) 5 4 4 0 (b) 5.0 4.0 3.0 0.67

9.14 题目错，设 $z = 5$ ；结果为：200 1000

9.15 100

9.16 $x = 3$; $y = 0$

Chapter 10

10.1 $\times \sqrt{\sqrt{\sqrt{\sqrt{\times} \sqrt{\sqrt{\times} \sqrt{\sqrt{\times \times \times}} \sqrt{\times \times \times}} \sqrt{\times \times \times}} \sqrt{\times \times \times}}$

10.2 typedef union tag_name pointer member

Chapter 11

11.1 $\sqrt{\times \sqrt{\sqrt{\sqrt{\sqrt{\times} \sqrt{\times \times \times}} \sqrt{\times \times \times}} \sqrt{\times \times \times}} \sqrt{\times \times \times}$

11.2 address * * 0 null