第4次作业

Ex1

0, 1, 0, 1, 0

Ex2

1, 0, 1, 0, 1, 0

Ex3

```
1. x % 2 == 0 && y % 2 == 1
2.等价于a和b不能是一奇一偶: (a + b) % 2 != 1
3. (!a || !b) && a + b != 0
4. (x > 10 && x < 100) || (x < 0 && x != -2.0)
5. 1.0/sqrt(2*3.1415926)*exp(-x*x/2)
6. r1*r1 <= sqrt(x*x + y*y) && sqrt(x*x + y*y) <= r2*r2
7. m % 5 == 0 && m % 7 == 0 && m % 35 != 0
8. m % p == 0 && n % p == 0 && m % q != 0 && n % q != 0
9. (x * y + (x + y) / (4 * a)) / 2
10. sin(x*x + y*y) * cos(x + y) / 3
```

Ex8

b=13, c=11, d=18

Ex9

b=13, c=20, d=18

Ex10

b=13, c=20, d=27

Ex12

源代码

```
1 #include <stdio.h>
2
   int main() {
3
        const double pi = 3.14159;
6
        double r, h;
7
        printf("input r and h: ");
8
        scanf("%lf %lf", &r, &h);
9
        printf("s = \%.41f\n", 2 * pi * r * h);
10
        printf("ssum = \%.41f\n", 2 * pi * r * h + 2 * pi * r * r);
11
        printf("v = %.41f\n", pi * r * r * h);
12
```

```
13 | return 0; 15 |}
```

运行结果

```
PS E:\Code_C++\hw04> cd "e:\Code_C++\h
input r and h: 3.5 4.6
s = 101.1592
ssum = 178.1282
v = 177.0286
```

Ex13

源代码

```
#include <stdio.h>
2
 3
    void bin(int n) {
 4
        int b[8] = \{0\};
 5
        for (int i = 0; i < 8; i++) {
 6
            if (n) {
 7
                b[7 - i] = n \% 2;
 8
                n /= 2;
 9
            }
10
            else
                break;
11
12
        }
13
14
        for (int i = 0; i < 8; i++) {
15
            printf("%2d", b[i]);
16
        }
    }
17
18
19
    int main() {
20
        int n;
21
22
23
        for (int i = 0; i < 8; i++) {
            printf("input a number(< 256): ");</pre>
24
25
            scanf("%d", &n);
26
            if (n > 255 || n < 0)
27
                break;
28
            printf("%d ---> ", n);
29
30
            bin(n);
            printf("\n");
31
32
        }
33
34
       return 0;
35 }
```

```
PS E:\Code_C++\hw04> cd "e:\Code_C++\hw04\
input a number(< 256): 43

43 ---> 0 0 1 0 1 0 1 1
input a number(< 256): 78

78 ---> 0 1 0 0 1 1 1 0
input a number(< 256): 145

145 ---> 1 0 0 1 0 0 0 1
input a number(< 256): 236

236 ---> 1 1 1 0 1 1 0 0
input a number(< 256): 255

255 ---> 1 1 1 1 1 1 1
input a number(< 256): -1
PS E:\Code_C++\hw04>
```