

第三章

```
1. case3-01  
package Case;  
import java.util.Scanner;  
public class case3_01 {  
    public static void main (String[] args) {  
        Scanner sc = new Scanner (System.in);  
        System.out.println ("请输入一个整数");  
        int x = sc.nextInt ();  
        if (x % 2 == 0) {  
            System.out.println ("为偶数");  
        }  
        else {  
            System.out.println ("为奇数");  
        }  
        System.out.println ("结束");  
    }  
}
```

2. case3-02

package Case;

import java.util.Scanner;

public class case3-02 {

public static void main (String[] args) {

System.out.println("请输入小明的考试成绩");

Scanner sc = new Scanner(System.in);

int score = sc.nextInt();

if (score >= 95) {

System.out.println("100元");

else if (score >= 90) {

System.out.println("周末游");

else if (score >= 80) {

System.out.println("衣服");

else if (score < 80) {

System.out.println("无奖励");

System.out.println("结束");

}

}

3. case3-03

package Case;

import java.util.Scanner;

public class case3-03 {

public static void main (String[] args) {

System.out.println("开始");


```
Scanner sc = new Scanner(System.in);
System.out.println("请输入一个月份");
System.out.println
int number = sc.nextInt();
switch (number) {
    case 3:
    case 4:
    case 5:
        System.out.println("春");
        break;
    case 6:
    case 7:
    case 8:
        System.out.println("夏");
        break;
    case 9:
    case 10:
    case 11:
        System.out.println("秋");
        break;
    case 12:
    case 1:
    case 2:
        System.out.println("冬");
        break;
    default:
        System.out.println("结束");
}
```

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4. case3-04

package Case;

public class case3-04 {

public static void main (String[] args) {

int i=1, a=0;

while (i<=5) {

a+=i;

i++;

}

System.out.println("数据之和为: "+a);

}

}

5. Case3-05

package Case;

public class case3-05 {

public static void main (String[] args) {

float a=0.1f;

int b=0;

while (a<=8844430) {

a*=2;

b++;

}

System.out.println("需要折叠的次数为: "+b);

}

}

6. case 3-06

package Case;

public class case3-06 {

public static void main (String [] args) {

int a = 0;

for (int i = 1; i <= 5; i++) {

a += i;

}

System.out.println(数据^和为: " + a);

}

}

7. case 3-07

package Case;

public class case3-07 {

public static void main (String [] args) {

int a = 0;

for (int b = 2; b <= 100; b += 2) {

a += b;

}

System.out.println("偶数和为: " + a);

}

}

8. case 3-08

package Case;

public class case3-08 {

```

public static void main (String[] args) {
    System.out.println("输入水仙花的总数:");
    for (int i = 100; i < 1000; i++) {
        int a = i % 10;
        int b = i / 10 % 10;
        int c = i / 100 % 10;
        if (a * a * a + b * b * b + c * c * c == i) {
            System.out.println(i);
        }
    }
}

```

9. case 3-09

```

package Case;
public class case 3-09 {
import java.util.Scanner;
public class case 3-09 {
    public static void main (String[] args) {
        System.out.println("请输入要查看第n个数中的n值");
        Scanner sc = new Scanner (System.in);
        int a = sc.nextInt();
        int b = 1, c = 1, d = 0;
        for (int e = 3; e <= a; e++) {
            d = c;

```



```

    c = b + c;
    b = d;
}
System.out.println(c);
}
}

```

10. case 3-10

```

package Case;
import java.util.Scanner;
public class case3-10 {
    public static void main (String[] args) {
        Scanner sc = new Scanner (System.in);
        int a = sc.nextInt();
        int i, n, j;
        for (i = 1; i <= a; i++) {
            for (n = 1; n <= a - i; n++) {
                System.out.print(" ");
            }
            for (j = 1; j <= 2 * i - 1; j++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

11. case 3-11

package Case;

public class case3-11 {

public static void main (String[] args) {

int a = 0;

loop: for (int b = 1; b <= 8; b++) {

for (int c = 1; c <= 8; c++) {

a++;

if (b == 2 && c == 5) {

break loop;

}

System.out.println(b + "排" + c + "列" + a);

}

}

}

12. case 3-12

package Case;

public class case3-12 {

public static void main (String[] args) {

System.out.println("票座信息");

for (int i = 1; i <= 4; i++) {

for (int j = 1; j <= 10; j++) {

if (j == 1 || j == 10) {

System.out.print(" ! ");


```

        continue;
    }
    else {
        System.out.println("A");
    }
}
System.out.println();
}
}
}

```

13. case 3.13.

```

package case;
import java.util.Random;
import java.util.Scanner;
public class case3.13 {
    public static void main (String [] args) {
        Random r = new Random();
        int num = r.nextInt ( bound : 100 ) + 1;
        while (true) {
            Scanner sc = new Scanner (System.in);
            System.out.println ("请输入你猜的数字");
            int guessNumber = sc.nextInt();
            if (guessNumber > num) {
                System.out.println ("你猜的数据大了")
            }
        }
    }
}

```

```

    }
    else if (guessNumber < num) {
        System.out.println("你猜的数据小了");
    }
    else {
        System.out.println("恭喜你猜中了");
        break;
    }
}
}
}

```

14. ifDemo-01

package IF;

~~import java.util~~

public class ifDemo-01 {

public static void main (String[] args) {

System.out.println("开始");

int a = 10;

int b = 20;

if (a == b) {

System.out.println("a等于b");

}

int c = 10;

if (a == c) {


```
        System.out.println("a等于");  
    }  
    System.out.println("结束");  
}  
}
```

15. ifDemo-02

package IF;

public class ifDemo-02 {

public static void main (String[] args) {

System.out.println("开始");

int a = 10;

int b = 20;

if (a > b) {

System.out.println("a的值大于b");

} else {

System.out.println("a的值不大于b");

}

System.out.println("结束");

}

}

16. ifDemo-03

package IF;

import java.util.Scanner;

public class ifDemo-03 {

```

public static void main (String [] args) {
    System.out.println ("开始");
    Scanner sc = new Scanner (System.in);
    System.out.println ("请输入一个星期数 (1-7):");
    int week = sc.nextInt();
    if (week == 1) {
        System.out.println ("星期一");
    }
    else if (week == 2) {
        System.out.println ("星期二");
    }
    else if (week == 3) {
        System.out.println ("星期三");
    }
    else if (week == 4) {
        System.out.println ("星期四");
    }
    else if (week == 5) {
        System.out.println ("星期五");
    }
    else if (week == 6) {
        System.out.println ("星期六");
    }
    else if (week == 7) {
        System.out.println ("星期天");
    }
    System.out.println ("结束");
}

```

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17. Switch D
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17 Switch Demo

package IF;

import class SwitchDemo {

public static void main (String [] args) {

Scanner sc = new Scanner (System.in);

System.out.println ("请输入成绩");

int grade = sc.nextInt ();

switch (grade) {

case 10:

case 9:

System.out.println ("成绩为优");

break;

case 8:

System.out.println ("成绩为良");

break;

case 7:

case 6:

System.out.println ("成绩为中");

break;

case 5:

case 4:

case 3:

case 2:

case 1:

case 0:

```

        System.out.println("成绩为差");
        break;
    default:
        System.out.println("成绩无效");
    }
}

```

18. BreakTest01

package WHILE;

public class BreakTest01 {

public static void main (String[] args) {

for (int i=1; i<20; i++) {

if (i%2==0) {

System.out.println(i);

break;

}

}

System.out.println("--- end ---");

}

}

19. BreakTest02

package WHILE;

public class BreakTest02 {

public static void main (String[] args) {


```

loop: for (int i=0 ; i<3 ; i++)
    // for (int i=0 ; i<3 ; i++)
    {
        for (int j=0 ; j<6 ; j++) {
            if (j==4) {
                // break loop ;
                // break ;
            }
            System.out.println ("i=" + i + "j=" + j);
        }
    }
}
}
}
}

```

20. continueTest

package WHILE;

public class continueTest {

public static void main (String[] args) {

for (int i=1 ; i<20 ; i++) {

if (i%2!=0) {

continue;

}

System.out.println (i);

}

} }

21. forDemo

package WHILE;

public class forDemo {

public static void main (String [] args) {

for (int i=1; i<=5; i++) {

System.out.println (i);

}

for (int i=5; i>=1; i--) {

System.out.println (i)

}

}

22. Multiplication

package WHILE;

public class Multiplication {

public static void main (String [] args) {

int i, j;

for (i=1; i<10; i++) {

for (j=1; j<=i; j++) {

System.out.print (j+"x"+i+"="+i*j+"\t");

}

System.out.println ();

}

}

}

23. randomDemo

```
package WHILE;  
import java.util.Random;  
public class randomDemo {  
    public static void main (String[] args) {  
        //创建对象  
        Random r = new Random ();  
        //用循环获取10个随机数  
        for (int i=0; i<10; i++) {  
            int number = r.nextInt (bound=10);  
            System.out.println ("number: "+number);  
        }  
        int x = r.nextInt (bound:100)+1;  
        System.out.println(x);  
    }  
}
```

24. whileDemo

```
package WHILE;  
public class whileDemo {  
    public static void main (String[] args) {  
        int i = 1;  
        while (i<=5) {  
            System.out.println ("HelloWorld");  
            i++;  
        }  
    }  
}
```