1.多维数组:

```
//多维数组:把数组当成元素放到另一个数组中
int[] a1 = {1, 2, 3};
int[] b1 = {4, 5, 6};
//二维数组
int[][] c1 = {a1, b1};
int c2[][] = {{1, 2, 3}, {4, 5, 6}};
System. out. println(c1. length);
//遍历二位数组
  for (int i = 0; i <cl. length; i++) {
      for (int j = 0; j < c1[i]. length; j++) {
         System.out.println(c1[i][j]+" ");
      System. out. println();
遍历二维数组:
动态初始化
  //动态初始化
  int[][] c3 = new int[2][3]://两行三列的数组
  //练习: 遍历数组, 随机为数组的元素赋值【1,9】
   Random random=new Random();
   //控制行
    for (int i = 0; i < 2; i++) {
        //控制列
       for (int j = 0; j < 3; j++) {
          c3[i][j]=random.nextInt(9)+1;
       }
   }
1. 3-4-----4-3
```

```
//练习:先定义一行三列的数组.随机为数组元素赋值,[10,99]
//练习:把上面的数组的列行交换,存一个数组中
int c5[][] = new int[3][4];
Random random = new Random();
for (int i = 0; i < 3; i++) {
            c5[i][j] = random.nextInt(bound: 90) + 10;
            System.out.print(c5[i][j] + " ");
        }
        System.out.println();
}
int c6[][] = new int[4][3];
for (int i = 0; i < 4; i++) {
            c6[i][j] = c5[j][i];
            System.out.print(c6[i][j] + " ");
}
```

2.先定义两个个3-5列的数组,两个数组相加给第三个数组

```
1 int c7[][] = new int[3][5];
2 int c8[][] = new int[3][5];
3 for (int i = 0; i < 3; i++) {
4 for (int j = 0; j < 5; j++) {
6 c8[i][j] = random.nextInt(5) + 1;
 System.out.print(c7[i][j] + " " + c8[i][j] + " ");
8
9
  }
  System.out.println();
10
11 }
12 int c9[][] = new int[3][5];
13 for (int i = 0; i < 3; i++) {
  for (int j = 0; j < 5; j++) {
14
  c9[i][j] = c7[i][j] + c8[i][j];
15
   System.out.print(c9[i][j] + " ");
16
17
   }
18
   System.out.println();
20 }
```

3. 6行8列[10,20],打印第三列

```
1 int b2[][] = new int[6][8];
2 for (int i = 0; i < 6; i++) {
3    for (int i1 = 0; i1 < 8; i1++) {
4    b2[i][i1] = random.nextInt(11) + 10;
5    System.out.print(b2[i][i1] + " ");
6    }
7    System.out.println();
8    }
9    for (int i = 0; i < 6; i++) {
10        System.out.print(b2[i][2]+" ");
11    }
12    for (int i1 = 0; i1 < 6; i1++) {
13        System.out.print(b2[5][i1]+" ");
14    }</pre>
```