Bài soạn

Run in terminal: javac ten\_file

. java ten\_file

**Khai báo thư viện**: import java.util.Date;

. import java.util.Scanner;

**Vòng lặp: cú pháp**

**While:**

int count = 0;

while (count < 100) {

System.out.println("Welcome to Java!");

count++;

}

**For:**

int i;

for (i = 0; i < 100; i++) {

System.out.println("Welcome to Java!");

}

**Mảng 2 chiều:**

java.util.Scanner input = new Scanner(System.in);

System.out.println("Enter " + matrix.length + " rows and " +

matrix[0].length + " columns: ");

for (int row = 0; row < matrix.length; row++) {

for (int column = 0; column < matrix[row].length; column++) {

matrix[row][column] = input.nextInt();

}

}

**Mảng 2 chiều nhập giá trị ngẫu nhiên:**

for (int row = 0*; row < matrix.length; row++) {*

for (int column = 0*; column < matrix[row].length; column++) {*

matrix[row][column] = (int) (Math.random() \* 100);

}

}

**In mảng:**

for (int row = 0*; row < matrix.length; row++) {*

for (int column = 0*; column < matrix[row].length; column++) {*

System.out.print(matrix[row][column] + " ")*;*

}

System.out.println()*;*

}

**Xáo trộn mảng:**

for (int i = 0; i < matrix.length; i++) {

for (int j = 0; j < matrix[i].length; j++) {

int i1 = (int) (Math.random() \* matrix.length);

int j1 = (int) (Math.random() \* matrix[i].length);

// Swap matrix[i][j] with matrix[i1][j1]

int temp = matrix[i][j];

matrix[i][j] = matrix[i1][j1];

matrix[i1][j1] = temp;

}

}

**Sao chép mảng:**

int[] sourceArray = {2, 3, 1, 5, 10};

int[] targetArray = new int[sourceArray.length];

for (int i = 0; i < sourceArray.length; i++) {

targetArray[i] = sourceArray[i];

}

Cách khác:

arraycopy(sourceArray, srcPos, targetArray, tarPos, length)*;*

System.arraycopy(sourceArray, 0, targetArray, 0, sourceArray.length);