Jagged Array in Java

Jagged array is array of arrays such that member arrays can be of different sizes, i.e., we can create a 2-D arrays but with variable number of columns in each row. These type of arrays are also known as Jagged arrays.

```
class JArray
{

   public JArray()
   {
      int i,j;

   //Declearing 2-D array with two rows
   int a[][]=new int[2][];

    // First row has 3 columns
      a[0] = new int[3];

      // Second row has 2 columns
      a[1] = new int[2];

      // Initializing array
      int count = 0;
      for(i=0;i<a.length;i++)
         for(j=0;j<a[i].length;j++)
            a[i][j]=count++;

      for(i=0;i<a.length;i++)
      {
         for(j=0;j<a[i].length;j++)
         {
            System.out.print("\t"+a[i][j]);
         }
         System.out.println();
      }

   }
}
```

Output:

```
        0       1       2
```

```
          3         4
// Another Java program to demonstrate 2-D jagged  array such that first row has 1
//element, second  row has two elements and so on.
class JArray
{
   public JArray()    {
      int r = 5;

      // Declaring 2-D array with 5 rows
      int arr[][] = new int[r][];

      // Creating a 2D array such that first row
      // has 1 element, second row has two
      // elements and so on.
      for (int i=0; i<arr.length; i++)
         arr[i] = new int[i+1];

      // Initializing array
      int count = 0;
      for (int i=0; i<arr.length; i++)
         for(int j=0; j<arr[i].length; j++)
            arr[i][j] = count++;

      // Displaying the values of 2D Jagged array
      System.out.println("Contents of 2D Jagged Array");
      for (int i=0; i<arr.length; i++)
      {
         for (int j=0; j<arr[i].length; j++)
            System.out.print(arr[i][j] + " ");
         System.out.println();
      }
   }
}
```

Output:

```
0
1 2
3 4 5
6 7 8 9
10 11 12 13 14
```