```java
class benchmark
{

   static int factorialIterative(final int x)
   {
      int answer = 1;

      for(int i = 1; i <= x; i++)
         answer *= i;

      return answer;
   }


   static int factorialRecursive(int x)
   {
      if(x == 0)
         return 1;
      else
         return x * factorialRecursive(x-1);
   }


   static public void main(String[] args)
   {
      long testStartTime;

      final int factorialValue = 7;


      // Measure the speed of the Iterative algorithm
      testStartTime = System.nanoTime();
      for(int i = 0; i < 10000000; i++)
         factorialIterative(factorialValue);
      long iterativeTime = System.nanoTime() - testStartTime;


      // Measure the speed of the Recursive algorithm
      testStartTime = System.nanoTime();
      for(int i = 0; i < 10000000; i++)
         factorialRecursive(factorialValue);
      long recursiveTime = System.nanoTime() - testStartTime;

      System.out.println();
      System.out.println("calculating the factorial of " + factorialValue);
      System.out.println("iterativeTime = " + (iterativeTime / 1000000)
                                            + " milliseconds");
      System.out.println("recursiveTime = " + (recursiveTime / 1000000)
                                            + " milliseconds");

      if(iterativeTime < recursiveTime)
         System.out.println("iterative is faster!");
      else
         System.out.println("recursive is faster!");

   }

}
```