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Codigo ejercicios 1.
import java.util.Random;
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*/
  public class Datos {
     public static void main(String [] args){
        int n = 100000000;
        int a,b,c,d;
        a=10;
        b=20;
        c=100;
        d=1000;
      ArrayMax(f(n),n-1);
      groupSum(0,f(n),-1);
       fibonacci(a);
        fibonacci(b);
        fibonacci(c);
        fibonacci(d);
```

}

```
public static int[] f(int size) {
    int max = 20;
    int[] array = new int[size];
    Random generator = new Random();
    for (int i =0; i<size; i++)
      array[i] = generator.nextInt(max);
    return array;
  }
/*punto 1.2 del laboratorio*/
  public static int ArrayMax( int []A ,int n ){
         int i, max, temp;
    max = A[n];
    if (n != 0){
      temp= ArrayMax(A, n-1);
      if(temp > max){
         max = temp;
      }
    }
    return max;
  }
/*punto 1.1 del laboratorio*/
  public static boolean groupSum(int start, int[] nums, int target) {
    if (start >= nums.length) return target == 0;
    return groupSum(start + 1, nums, target - nums[start])
```

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| | groupSum(start + 1, nums, target);
}

/*punto 1.3 del laboratorio*/

public static long fibonacci(int n) {
    if (n <= 1) return n;
    else return fibonacci(n-1) + fibonacci(n-2);
}</pre>
```