



ASIGNATURA				CENTRO / TITULACION			
APELLIDOS Y NOMBRE							CALIFICACION
IGLESIAS RANCS, HERNÁN							
DNI / ID		FECHA		CURSO	GRUPO	NUMERO	

①

```
public class Fibonacci implements Iterable<Integer> {
```

```
    private int n;
```

```
    public Fibonacci (int n) {
```

```
        this.n = n;
```

```
    }
```

```
    @Override
```

```
    public <E> iterator () {
```

```
        return new Fibiterator();
```

```
    }
```

```
    private class Fibiterator implements Iterator<Integer> {
```

```
        int term = 1;
```

```
        int previous = 0;
```

```
        int k = 2;
```

```
        public boolean hasNext () {
```

```
            return k < n;
```

```
        }
```

```
        public Integer next () {
```

```
            if (!hasNext())
```

```
                if (k == 0) {
```

```
                    return previous;
```

```
                }
```

```
                if (k == 1) {
```

```
                    return term;
```

```
                }
```

```
                throw NoSuchElementException();
```

```
            }
```

```
        while (k <= n) {
```

```
            term += previous;
```

```
            previous = term - previous;
```

```
            k++;
```

```
        } return term;
```

```
    }
```

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①

2.

```
public static void print (int n) {
```

```
    Fibonacci fib = new Fibonacci (n);
```

```
    for (int x : fib) {
```

```
        System.out.printf ("%d", x);
```

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```
    }
    System.out.println ();
```

}

term = 1 prev = 0 k = 2 n = 10	term = 1 prev = 1 k = 3 return 1	term = 2 prev = 1 k = 4 return 2	term = 3 prev = 2 k = 5 return 3	term = 5 prev = 3 k = 6 return 5	term = 8 prev = 5 k = 7 return 8	term = 13 prev = 8 k = 8 return 13	term = 21 prev = 13 k = 9 return 21	term = 34 prev = 21 k = 10 return 34	term = 55 prev = 34 k = 11 return 55
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1, 2, 3, 5, 8, 13, 21, 34, 55



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② FORMA SI HUBIERA CONSTRUCTOR POR DEFECTO //

SIN CONSTRUCTOR POR DEFECTO

1. public C (Collection <? extends E> c) {

this();

data.addAll(c);

{

repetidos y malos



public C (Collection <? extends E> c) {

data = new LinkedList<>();

data.addAll(c);

{

public boolean add (E e) {

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if (data.contains(e)) {

return false;

{

else {

data.add(e);

return true;

{

// SI ESTÁ CONTENIDO NO SE AÑADE

2. public C (Collection <? extends E> c) {

if (c instanceof C) {

C<E> other = (C<E>) c;

this.data = other.data;

{

else {

this.data = new LinkedList<>(c);

{

{

repetidos y malos

// PARA COMPARTIR LA REPRESENTACION

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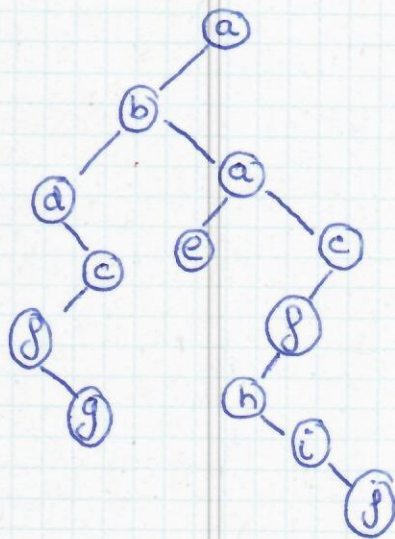
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③

1. PostOrden : sub-árbol izq, sub-árbol der, raíz

(d, f, g, c, b, e, a, h, i, j, f, c, a) 10/10

2. Árbol binario

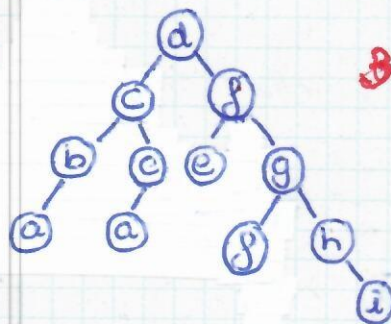


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Inorden : sub-árbol izq, raíz, sub-árbol der

(d, f, g, c, b, a, e, a, h, i, j, f, c). 8 a

3.



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