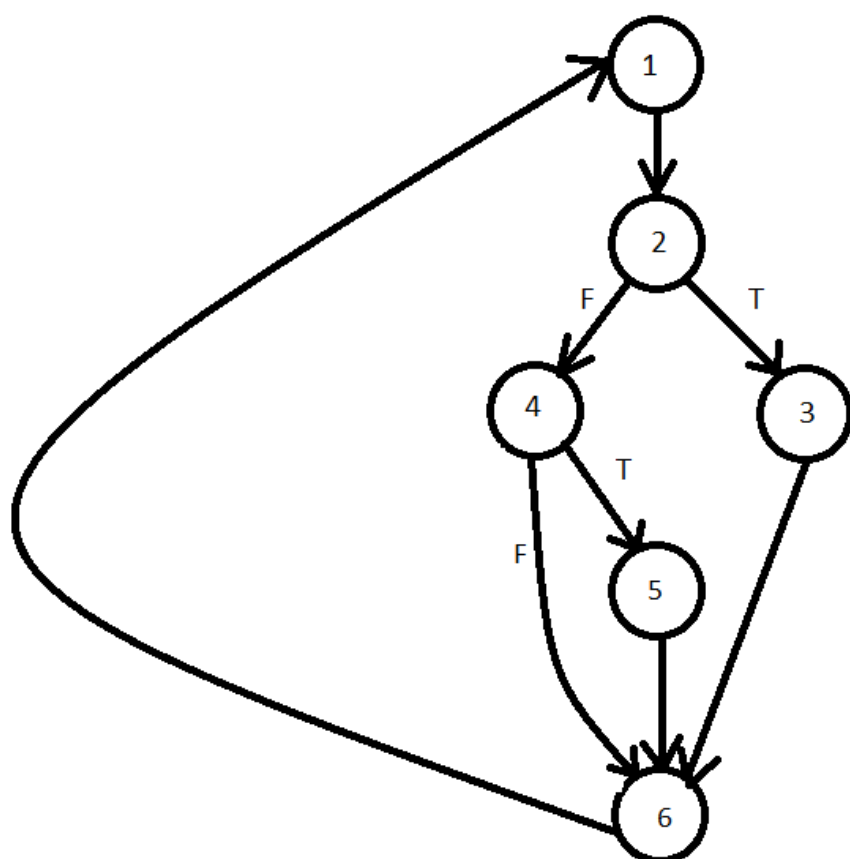


Ejercicios Repaso

- Ejercicio 1:



Complejidad de McCabe: 3

Caminos posibles:

1-2-3-6
1-2-4-6
1-2-4-5-6

- Ejercicio 2:

```
public int calcularPrezokWh(){
    int prezokWh=0;
    if (consumokWh==0) {
        return 0;
    }else if (consumokWh < 0){
        throw new NotValidValueException(message: "El consumo supera el límite permitido.");
    }else if (consumokWh<=300){
        prezokWh=9;
    }else if (consumokWh<=600){
        prezokWh=8;
    }else if (consumokWh<=1000){
        prezokWh=6;
    }else if (consumokWh<=2000){
        prezokWh=5;
    }else{
        throw new NotValidValueException(message: "El consumo supera el límite permitido.");
    }
    return prezokWh;
}
```

<i>Caso de prueba</i>	<i>Entrada</i>	<i>Saída esperada</i>
CP1	0	0
CP2	300	9
CP3	299	9
CP4	301	8
CP5	600	8
CP6	601	6
CP7	1000	6
CP8	1001	5
CP9	2000	5
CP10	2001	Error
CP11	-1	Error

```
public class FacturaTest {

    @Test
    public void CP1(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 0);
        assertEquals(expected: 0, f.calcularPrezokWh());
    }

    @Test
    public void CP2(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 300);
        assertEquals(expected: 9, f.calcularPrezokWh());
    }

    @Test
    public void CP3(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 299);
        assertEquals(expected: 9, f.calcularPrezokWh());
    }

    @Test
    public void CP4(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 301);
        assertEquals(expected: 8, f.calcularPrezokWh());
    }

    @Test
    public void CP5(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 600);
        assertEquals(expected: 8, f.calcularPrezokWh());
    }

    @Test
    public void CP6(){
        Factura f = new Factura();
        f.setConsumokWh(consumokWh: 601);
        assertEquals(expected: 6, f.calcularPrezokWh());
    }
}
```

```

@Test
public void CP7(){
    Factura f = new Factura();
    f.setConsumokWh(consumokWh: 1000);
    assertEquals(expected: 6, f.calcularPrezokWh());
}

@Test
public void CP8(){
    Factura f = new Factura();
    f.setConsumokWh(consumokWh: 1001);
    assertEquals(expected: 5, f.calcularPrezokWh());
}

@Test
public void CP9(){
    Factura f = new Factura();
    f.setConsumokWh(consumokWh: 2000);
    assertEquals(expected: 5, f.calcularPrezokWh());
}

@Test
public void CP10() throws NotValidValueException{
    Factura f = new Factura();
    f.setConsumokWh(consumokWh: 2001);
}

@Test
public void CP11() throws NotValidValueException{
    Factura f = new Factura();
    f.setConsumokWh(-1);
}

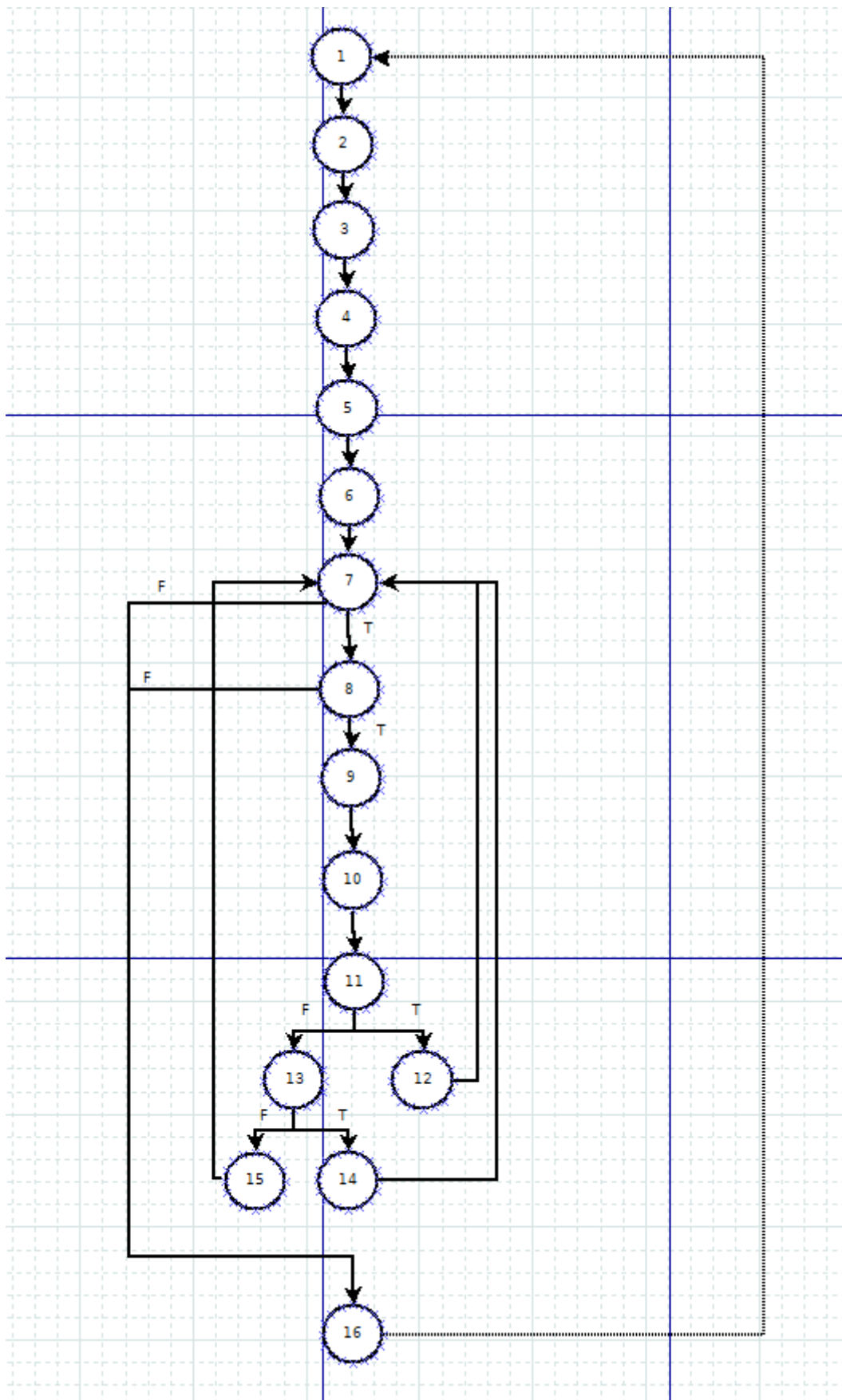
```

```

✓ FacturaTest 4.0ms
  ✓ CP10 3.0ms
  ✓ CP20 0.0ms
  ✓ CP30 0.0ms
  ✓ CP40 0.0ms
  ✓ CP50 0.0ms
  ✓ CP60 0.0ms
  ✓ CP70 0.0ms
  ✓ CP80 0.0ms
  ✓ CP90 0.0ms
  ✓ CP100 0.0ms
  ✓ CP110 1.0ms

```

- Ejercicio 3:

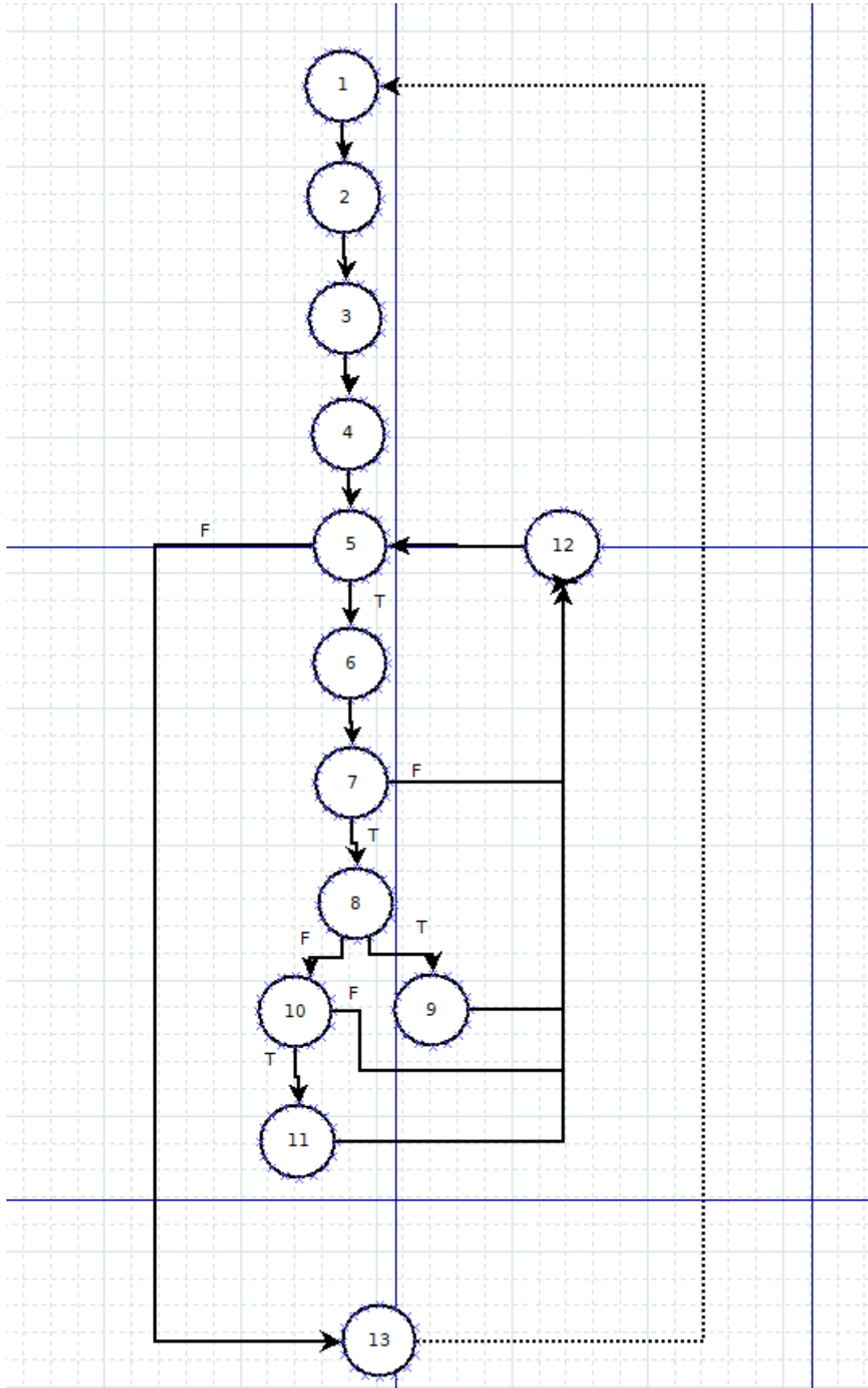


Complejidad de McCabe: 5

Caminos posibles:

- 1-2-3-4-5-6-7-16
- 1-2-3-4-5-6-7-8-16
- 1-2-3-4-5-6-7-8-9-10-11-12-7-...-16
- 1-2-3-4-5-6-7-8-9-10-11-12-13-14-7-...-16
- 1-2-3-4-5-6-7-8-9-10-11-12-13-15-7-...-16

- Ejercicio 4:



Complejidad de McCabe: 5

Posibles caminos:

- 1-2-3-4-5-13
- 1-2-3-4-5-6-7-12-5-...-13
- 1-2-3-4-5-6-7-8-9-12-5-...-13
- 1-2-3-4-5-6-7-8-10-12-5-...-13
- 1-2-3-4-5-6-7-8-10-11-12-5-...-13

- Ejercicio 5:

```
public class Calculadora {  
  
    public int suma(int a, int b){  
        return a + b;  
    }  
  
    public int resta(int a, int b){  
        return a - b;  
    }  
  
    public int multiplicacion(int a, int b){  
        return a * b;  
    }  
  
    public int division(int a, int b){  
  
        if (b == 0) {  
            throw new IllegalArgumentException(s: "Divisor cannot be zero.");  
        }  
  
        return a / b;  
    }  
}
```



```
3  import static org.junit.Assert.assertEquals;
4
5  import org.junit.Test;
6
7  public class CalculadoraTest {
8
9      @Test
10     public void CP1(){
11         Calculadora c = new Calculadora();
12         assertEquals(expected: 9, c.suma(a: 5, b: 4));
13     }
14
15     @Test
16     public void CP2(){
17         Calculadora c = new Calculadora();
18         assertEquals(expected: 1, c.suma(a: 5, b: -4));
19     }
20
21     @Test
22     public void CP3(){
23         Calculadora c = new Calculadora();
24         assertEquals(expected: 5, c.resta(a: 5, b: 0));
25     }
26
27     @Test
28     public void CP4(){
29         Calculadora c = new Calculadora();
30         assertEquals(expected: 1, c.resta(a: 5, b: 4));
31     }
32
33     @Test
34     public void CP5(){
35         Calculadora c = new Calculadora();
36         assertEquals(expected: 7, c.resta(a: 5, b: -2));
37     }
38
39     @Test
40     public void CP6(){
41         Calculadora c = new Calculadora();
42         assertEquals(expected: 20, c.multiplicacion(a: 5, b: 4));
43     }
44 }
```

```
44
45     @Test
46     public void CP7(){
47         Calculadora c = new Calculadora();
48         assertEquals(expected: 0, c.multiplicacion(a: 5, b: 0));
49     }
50
51     @Test
52     public void CP8(){
53         Calculadora c = new Calculadora();
54         assertEquals(-15, c.multiplicacion(a: 5, -3));
55     }
56
57     @Test
58     public void CP9(){
59         Calculadora c = new Calculadora();
60         assertEquals(expected: 2, c.division(a: 5, b: 2));
61     }
62
63     @Test (expected = IllegalArgumentException.class)
64     public void CP10(){
65         Calculadora c = new Calculadora();
66         c.division(a: 5, b: 0);
67     }
68
69     @Test
70     public void CP11(){
71         Calculadora c = new Calculadora();
72         assertEquals(-3, c.division(a: 9, -3));
73     }
74
75 }
76
```