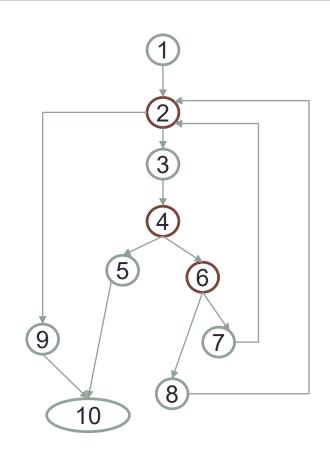
# EJERCICIOS CAJA BLANCA

Técnica del camino básico. Ejercicios 1 y 2

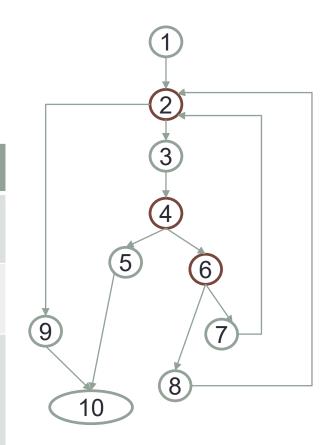
```
static public int search(char c, char []v)
             int a, z, m;
             a = 0;
             z = v.Length - 1;
             while (a <= z)
                 m = (a + z) / 2;
                 if (v[m] == c) {
                     return 1;
                 else if(v[m] < c)</pre>
                     a = m + 1;
                 else
                     z = m - 1;
             return 0;
```

```
static public int search(char c, char []v)
            int a, z, m;
            a = 0;
            z = v.Length - 1;
            while (a <= z)
                m = (a + z) / 2; (3)
                if (v[m] == c) {
                    return 1; 5
             (6) else if(v[m] < c)
                    a = m + 1; 7
                else
                    z = m - 1; (8)
            return 0; 9
   10
```



V(G)= 4  
Áreas = 4  
Nodos Predicado = 
$$3 \rightarrow 3+1=4$$
  
Nodos =  $10 \rightarrow 12-10+2=4$   
Aristas =  $12$ 

Path	Input	Output
{1,2,9,10} Cadena vacia	V="" c='a'	0
{1,2,3,4,5,10} En el primer lugar	V="a" c='a'	1
{1,2,3,4,6,7,2,9,10} Cadena con solo un carácter, menor que el objetivo	V="a" c='b'	0
{1,2,3,4,6,8,2,9,10} Cadena con solo un carácter, mayor que el objetivo	V="b" c='a'	0



```
static public void sort(int[] testArray)
             int tempValue;
             int i = 0;
             bool isSwapped = true;
             while (isSwapped)
                 isSwapped = false;
                 i++;
                 Console.Out.WriteLine("Before "+i+" iteration :");
                 Console.Out.WriteLine("");
                 for (int j = 0; j < testArray.Length - i; j++)</pre>
                     if (testArray[j] > testArray[j + 1])
                         tempValue = testArray[j];
                         testArray[j] = testArray[j + 1];
                         testArray[j + 1] = tempValue;
                         isSwapped = true;
```

```
static public void sort(int[] testArray)
    int tempValue;
    int i = 0;
    bool isSwapped = true;
   while (isSwapped)(2)
        isSwapped = false;
        i++;
     (3)Console.Out.WriteLine("Before "+i+" iteration :");
                                                                    6
        Console.Out.WriteLine("");
        for (int j = 0; j < testArray Length - i; j7)
              if (testArray[j] > testArray[j + 1])(5)
                   tempValue = testArray[j];
                   testArray[j] = testArray[j + 1];
                                                       V(G)=4
                   testArray[j + 1] = tempValue;
                                                       Areas = 4
                   isSwapped = true;
                                                       Nodos Predicado = 3 \rightarrow 3-1=4
                                                       Nodos = 8 \rightarrow 10-8+2 =4
                                                       Aristas = 10
```

Path	Input	Output
{1,2,8} Cadena Vacía	No posible	No posible
{1,2,3,4,2,8} Vacía o una posición	[]	
{1,2,3,4,5,7,4,2,8} Dos posiciones ordenadas	[1,2]	[1,2]
{1,2,3,4,5,6,7,4,2,8} Dos posiciones desordenadas	[2,1]	[1,2]

