算法 2 基准法 + 并查集计算桥的数量

输入： $vexnum$ 顶点数，$arcnum$ 边数，$edge$ 边信息

输出： $Count$ 桥的数量

1: **function** JOINSETINIT
2:     **for** $i = 0 \rightarrow vexnum$ **do**
3:         $father[i] \leftarrow i$
4:     **end for**
5: **end function**

6:

7: **function** JOINSETFIND(v)
8:     **if** $father[v] == v$ **then**
9:         **return** v
10:     **end if**
11:     $father[v] \leftarrow$ JOINSETFIND(father[v])
12:     **return** $father[v]$
13: **end function**

14:

15: **function** JOINSETCOUNT
16:     $ansbefore \leftarrow$ DFSTRAVERSE
17:     **for** $i = 0 \rightarrow arcnum$ **do**
18:         INIT
19:         JOINSETINIT
20:         $res \leftarrow vexnum$
21:         **for** $j = 0 \rightarrow arcnum$ **do**
22:             **if** $i == j$ **then**
23:                 $continue$
24:             **end if**
25:             $f1 \leftarrow$ JOINSETFIND(edge[j][0])
26:             $f2 \leftarrow$ JOINSETFIND(edge[j][1])
27:             **if** $f1 != f2$ **then**
28:                 $father[f2] \leftarrow f1$
29:                 $res - -$
30:             **end if**
31:         **end for**
32:         **if** $res != ansbefore$ **then**
33:             $Count + +$
34:         **end if**
35:     **end for**
36: **end function**