

```
public void complogic(int num){
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for(i=0; i<=7; i++) { //for #1
    for(j=1; j<=3; j++) { //for #2
        if(a[i][j]==num) { //if #1
            a[i][0]=11;
            a[i][4]=10;
        } //end if #1
    } //end for #2
} //end for #1

for(i=0; i<=7; i++) { //for #3
    set=true;

    if(a[i][4]==10) { //if #2
        int count=0;

        for(j=1; j<=3; j++) { //for #4

            if(b[(a[i][j]-1)].getIcon()!=null) { //if #3
                count++;
            }
            else {
                yesnull=a[i][j];
            } //end if #3

        } //end for #4

        if(count==2) { //if #4
            b[yesnull-1].setIcon(ic2);
            this.check(yesnull);
            set=false;
            break;
        } //end if #4
    } //end if #2
    else if(a[i][0]==10) { //else if #1

        for(j=1; j<=3; j++) { //for #5

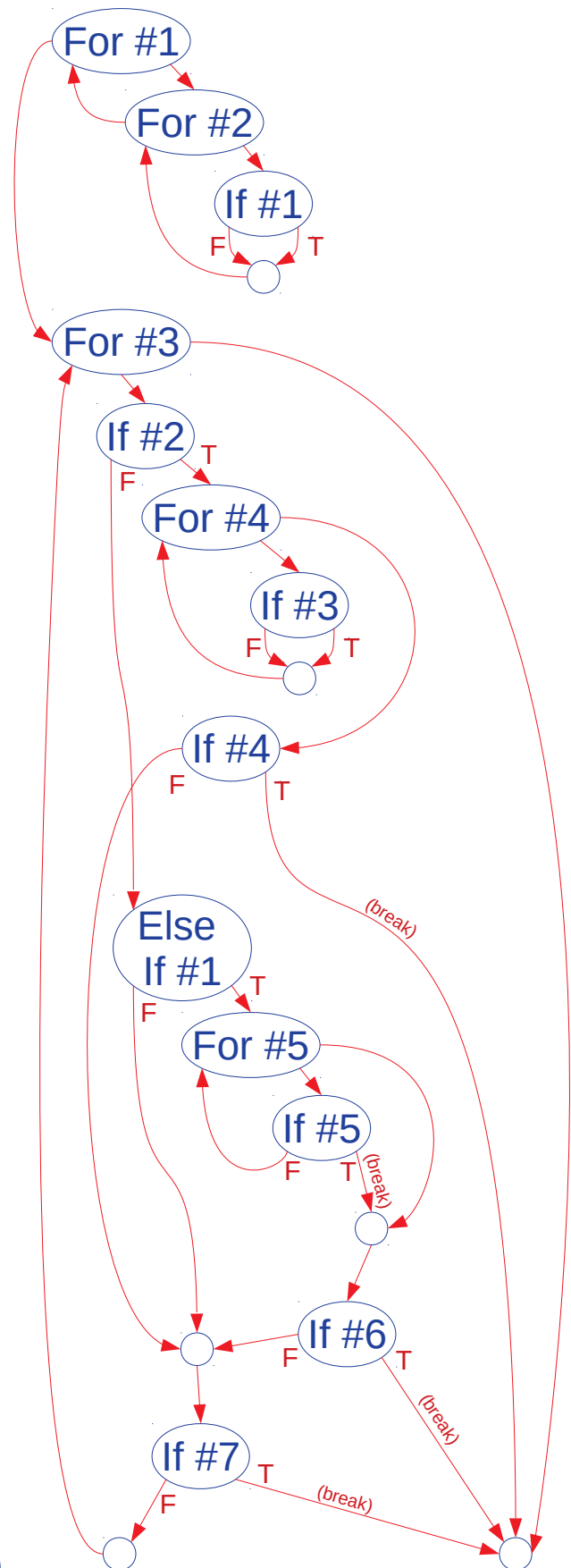
            if(b[(a[i][j]-1)].getIcon()==null) { //if #5
                b[(a[i][j]-1)].setIcon(ic2);
                this.check(a[i][j]);
                set=false;
                break;
            } //end if #5

        } //end for #5

        if(set==false) { //if #6
            break;
        } //end if #6
    } //end else if #1

    if(set==false) { //if #7
        break;
    } //end if #7
} //end for #3
} //end complogic

```



Edges = 31
Nodes = 19

$M = \text{Edges} - \text{Nodes} + 2$
 $M = 31 - 19 + 2$
 $M = 14$