


```

        if (xx!=0 || yy!=0) {
            int xxx=x+xx;
            if (xxx<0)
                xxx=199;
            else if (xxx>199)
                xxx=0;
            int yyy=y+yy;
            if (yyy<0)
                yyy=199;
            else if (yyy>199)
                yyy=0;

            if (tiles[xxx][yyy])
                numWallNeighbours[x][y]++;
        }
    }
}

// 3: any tile with 5 or more wall neighbours is a wall, else it's a
floor
for (int x=0;x<200;x++) {
    for (int y=0;y<200;y++) {
        tiles[x][y] = (numWallNeighbours[x][y]>=5);
    }
}

// 4: repaint
repaint();
}

public void paint(Graphics g) {
    // clear the canvas with a big black rectangle
    g.setColor(Color.BLACK);
    g.fillRect(0, 0, 800, 800);

    // redraw all game objects
    g.setColor(Color.WHITE);
    for (int x=0;x<200;x++) {
        for (int y=0;y<200;y++) {
            if (tiles[x][y]) {
                g.fillRect(x*4, y*4, 4, 4);
            }
        }
    }
}

// application entry point
public static void main(String[] args) {

```

```
        ProcGen p = new ProcGen();  
    }  
}
```