

```

public static String hailstone(int n) {
    String series = n + " ";
    while (n != 1) {
        if (n % 2 == 0)
            n = n / 2;
        else
            n = (3 * n) + 1;
        series += n + " ";
    }
    return series;
}

```

→  $series = series + n + " "$

hailstone(5)

Loop #	Variables		Work it out
	n	series	
0	5	"5 "	$5 \% 2 = 1$ FALSE $n = (3 \times 5) + 1 = 16$
1	16	"5 16 "	
2	8	"5 16 8 "	$16 \% 2 = 0$ TRUE $16 / 2 = 8$
3	4	"5 16 8 4 "	$8 \% 2 = 0$ TRUE $8 / 2 = 4$
4	2	"5 16 8 4 2 "	$4 \% 2 = 0$ TRUE $4 / 2 = 2$
5	1	"5 16 8 4 2 1 "	$2 \% 2 = 0$ TRUE $2 / 2 = 1$

↑  
return

$n=1$  sur: