

# Recursive Sequences

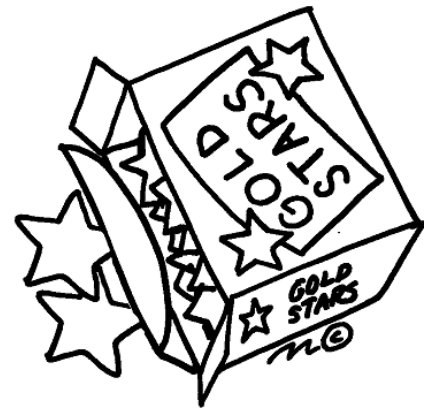
Create recursive methods to print these sequences on the screen.

A good (and insanely inefficient) way to test your sequence is with a loop:

```
for (int i = 1 ; i < 10 ; i++)  
    System.out.print (s (i) + " ");
```

Save before you run it! You could overload memory easily if your method is wrong.

1. 25 24 23 22 21 20 19 18 17
2. 25 23 21 19 17 15 13 11 9
3. 2 4 6 8 10 12 14 16 18
4. 2 3 4 5 6 7 8 9 10
5. 1 2 4 8 16 32 64 128 256
6. 2 2 4 6 10 16 26 42 68
7. 3 3 6 9 15 24 39 63 102
8. 1 2 6 24 120 720 5040 40320 362880



Some starter code:

```
public class sequence  
{  
    public static void main (String[] args)  
    {  
        new sequence ();  
    }  
  
    public sequence ()  
    {  
        for (int i = 1 ; i < 10 ; i++)  
            System.out.print (s1 (i) + " ");  
    }  
  
    public int s1 (int n)  
    {  
        if (n <= 1)  
            return 1;  
        else  
            return s1 (n - 1) + 1;  
    }  
}
```