1. What is the type of the value of (delay (+ 1 27))? What is the type of the value of (force (delay (+ 1 27)))?

What's the difference between the following two expressions?

```
(delay (enumerate-interval 1 3))
(stream-enumerate-interval 1 3)
```

4. An unsolved problem in number theory concerns the following algorithm for creating a sequence of positive integers s_1, s_2, \ldots

Choose s_1 to be some positive integer. For n > 1, if s_n is odd, then s_{n+1} is $3 s_n + 1$; if s_n is even, then s_{n+1} is $s_n / 2$.

No matter what starting value is chosen, the sequence always seems to end with the values 1, 4, 2, 1, 4, 2, 1, 4, 2, 1, ... However, it is not known if this is always the case.

4a. Write a procedure num-seq that, given a positive integer n as argument, returns the stream of values produced for n by the algorithm just given. For example, (num-seq 7) should return the stream representing the sequence 7, 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1, 4, 2, 1, ...

4b. Write a procedure seq-length that, given a stream produced by num-seq, returns the number of values that occur in the sequence up to and including the first 1. For example, (seq-length (num-seq 7)) should return 17. You should assume that there is a 1 somewhere in the sequence.