Exercise 3.3b) Hint

Remember to use `option remember`.

If you want to test whether `n` is even or odd, you could test whether `n mod 2` is `0` or `1`.

Let H be the hailstone function (so $H(n)$ is either $n/2$ or $3n + 1$). Then the Hailstone length of n is 1 more than the Hailstone length of $H(n)$.