When we compute the Fibonacci numbers recursively, we compute F(n) by independently computing F(n-1) and F(n-2).

Note that F(n-1) also requires that we compute F(n-2), and so F(n-2) is computed twice, rather than once and then re-used.

It would be much better if we had stored the computations for F(i) for smaller values of i (in  $\{1, 2, ..., n-1\}$ ) so that they could be re-used.