```
1  // Duration
2  open System
3
4  let duration f =
5      let timer = new System.Diagnostics.Stopwatch()
6      timer.Start()
7      let returnValue = f()
8      printfn "Elapsed Time: %i" timer.
           ElapsedMilliseconds
9      returnValue
10
11 // Fibonacci recursive (hej hihihi)
12 let rec fibrec x =
13   match x with
14     | 1 -> 1
15     | 2 -> 1
16     | x -> fibrec(x-1) + fibrec(x-2)
17
18 // Fibonacci bottom-up dp
19 let fib x =
20   let fibmap = new System.Collections.Generic.
         Dictionary<int,int64>()
21   fibmap.[1] <- int64 1
22   fibmap.[2] <- int64 1
23   for i=3 to x do
24     fibmap.[i] <- (fibmap.[i-1] + fibmap.[i-2])
25   fibmap.[x]
26
27 // Le main (9gag)
28 let main() =
29   printfn "Fibonacci recursive 30: %i" (duration ( fun
         () -> fibrec 30 ))
30   printfn "Fibonacci dp 150: %i" (duration ( fun() ->
         fib 150 ))
31
32 main()
```