256√ (Fibonacci) The Fibonacci numbers *fib n* are defined as follows.

$$fib\ 0 = 0$$
$$fib\ 1 = 1$$
$$fib\ (n+2) = fib\ n + fib\ (n+1)$$

Write a program to find *fib n* in time *log n* . Hint: see Exercise 383.

§ see book Subsection 4.2.7