

# fibonacci.R

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```
#if the 6th term is 13, find 23rd term
fibonacci_iterative <- function(n) {
  fib <- numeric(n)
  fib[1] <- 1 # Assume standard start, adjust via scaling
  fib[2] <- 1
  for (i in 3:n) {
    fib[i] <- fib[i - 1] + fib[i - 2]
  }
  return(fib)
}
k <- 13 / fibonacci_iterative(6)[6] # k = 13/8 = 1.625
round(fibonacci_iterative(23)[23] * k) # Scale and round

## [1] 46568
```