PROBLEM # 672

Posted on:7 April
Due on:14 April

$$1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, \cdots$$

is the celebrated *Fibonacci sequence* in which each term beginning with the third is equal to the sum of th two previous terms. As you can see the 15th term of the sequence ends with a 0. P rove that there is a term in the Fibonacci sequence that ends with 0000.

The problem of the week can be found online at

http://potw.mth.cmich.edu/

Solutions can be mailed to

chakr2d@cmich.edu

with subject line "POTW 672"