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consecutive digit primes

> Have you seen any work on machines with more than 2 characters?

Except for what we call "macro machine", no.

[Rich again, reflecting]

IF WE ASSUME that all of his 12000 holdouts are non-halters, then that's it. On the other hand, he implies there are some non-counter-machine machines, which leaves room for a surprise. Perhaps you should contact him for the most recent story.

Rich
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From la.tis.com!fermat!r Sun Jun 30 17:57:17 PDT 1991
Received: by gauss; Sun Jun 30 21:25:09 EDT 1991
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Date: Sun, 30 Jun 91 17:57:17 PDT
From: fermat!r@la.tis.com (Richard Schroepfel)
Message-Id: <9107010057.AA27690@rhmr.com>
To: njas@research.att.com
Subject: consecutive-digit primes
Status: 0

> I'm amazed that you could run that consecutive-digit primes sequence so far. Must be a clever program! Wow!

Nope, just a bit of Lisp.

```
(defun consecutive-digit (first length)
  (cond ((= length 0) 0)
        ((= length 1) first)
        (t (+ (* 10 (consecutive-digit first (1- length)))
              (mod (+ first length -1) 10)))))

;;(consecutive-digit 3 5) makes 34567

(dotimes (i 100) (dotimes (j 9) (let ((n (consecutive-digit (1+ j) (1+ i))))
  (when (quick-prime n) (print n)))) (print (list i)) (force-output))
```

It took perhaps a half hour to find the candidates, and maybe two hours to verify primality with an elliptic-curve checker.

Rich Schroepfel
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Wow!