

Re: Some question in prime number!

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- *From:* Cooper <cooper0040@xxxxxxxxxx>
  - *Date:* Fri, 29 Feb 2008 19:03:12 -0800 (PST)
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On 30 Feb, 19:26, μ <m...@xxxxxxxxxx> wrote:

Cooper a écrit :

Next choose the largest prime among less than  $n$  and denote it  $P$ .  
Then  $2P$  should be greater than  $n$  by bertrand postulate and  $P$  is the largest prime number.

Bertrand postulate (indeed, it is a theorem) is: given an integer  $n > 2$ , there exists a prime number between  $n$  and  $2*n$ .

If  $2P < n$ , there is some prime  $P_1$  between  $P$  and  $2P$  by Bertrand postulate but it contradicts to that  $P$  is the largest prime among less than  $n$ .

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