Scan _ A84740-A84742 retr Letter from R G Wilson, 5 circa 1991 3 pages dell to many

A84740

1st prime of the form (bP-1)/(b-1) for successive bases

2, 3, 2, 3, 2, 5, 3, \,\phi, \, 2, 17, 2, 3, 3, 3, 2, 3, 2, 19, 3,

3, 2, 5, 3, \,\phi, 7, 3, 2, 5, 2, 7, \,\phi, 3, 13,

moc v 16 n 204 p 928 Oct 93

1975

"Sylvester" primes (b"-1)/(b-1) JRM v8 n3 p 215

From R. G. Wilson, v, corea 1991

> A84740 A84741 A84742 4978 A7658 A1562 A57171

```
n for which (bf+1)/(b+1) is prime Ref: CUNN for b = 12
            3, 5, 7, 11, 13, 17, 19, 23, 31, 43, 61, 79, 101, 127, 167, 199,
m
2351
       2
            313, 347, 701, 1709, 2617
A0978
            3, 5, 7, 13, 23, 43, 281, 359, 487, 577
          3,
       4
                                               A57171
            5, 67, 101, 103, 229, 347,
       5
          3, 11, 31, 43, 47, 59, 107,
       6,
            3, 17, 23, 29, 47, 61,
       7
            none
       8
          3, 59, 223,
       9
            5, 7, 19, 31, 53, 67, 293, 641
 3664
       10
            5, 7, 179, 229,
       11
          5, 11, 109, 193,
      12
            3, 11, 17, 19,
      13
             7, 53,
      14
             3, 7, 29,
       15
             3, 5, 7, 23, 37, 89, 149, 173
       16
             7, 17, 23, 47,
      17
             3, 7, 23, 73,
       18
             17, 37, 157,
       19
              5,79,89,
       20
             3, 5, 7, 13, 37,
       21
             3, 5, 13, 43, 79
       22
             11, 13, 67, 109
       23
             7, 11, 19
       24
             3, 7, 23, 29, 59,
       25
```

A84742 }

p, 1^{5T} Prime of the form (b^P+1)/(b+1) for successive bases

3, 3, 3, 5, 3, 3, ø, 3, 5, 5, 5, 3, 7, 3, 3, 7, 3, 17, 5, 3,

3, 11, 7, 3, 11, ø, 3, 7, 139, 109, ø, 5, 3, 11, 31, 5, 5, 3,

53, 17, 3, 5, 7, 103, 7, 5, 5, 7,

[2,1]

a[b]:=(For[n=1, Not[Prime Q[(b~Prime[n]+1))/(b+1)!=False], n++]; Print[Prime[n]])

R.G. Wilson, J.