

**9/2/2010 Justin Coslor  
Midpoint Divisor Test For Sequential Prime Number Spacings  
Prototype Code Version 3**

```
-----  
If  $p2 \% 5 = 0$  then print  $p2$  is not prime, and try  $p2 + 2$   
// I'm not sure how to code that first line, but it is important.  
// It needs to filter out odd multiples of 5 as non-prime throughout.  
for  $n = 0$  to 100  
    while twinprime test is true, set  $p1 = p2$ , test  $p2+2$ , loop this line.  
    if svoid test is false  
    then  
        if odd odd test is true then set  $p1 = p2$  and return to while  
        else if even odd test is true then set  $p1 = p2$  and return to while  
    endif  
    if svoid test is true then print svoid test positive and set  $p1 = p2$   
 $n = n + 1$   
repeat for loop  
-----  
// Filter out odd number multiples of five, because they are not prime.  
// After each test print  $p1, p2, s, m, \text{divisors}, n, \text{etc.}$ 
```

**note:  $m = \text{midpoint}$  and  $s = \text{spacing}$**

**note: twinprime means  $s = 1$  [ $m = 6 \% 0$  ( $m$  divisible by 6)]**

**note: svoid test means  $s = 11 + 12n$  [ $m$  has no common divisors]**

**note: odd odd test means  $s = 3 + 4n$  [ $m = 3 \% 0$  ( $m$  divisible by 3)]**

**note: even odd test means  $s = 5 + 4n$  [ $m = 2 \% 0$  ( $m$  divisible by 2)]**

**note: svoid = odd odd [but  $m$  has no common midpoint divisors]**