
```
count = 0; % Prime counter
candidate = 2; % Number to test
n = 10001; % Which prime we want

while count < n
    if isprime(candidate)
        count = count + 1;
    end
    candidate = candidate + 1;
end

% Subtract 1 because we increment after checking
prime_10001 = candidate - 1;

fprintf("The 10001st prime number is %d\n", prime_10001);

The 10001st prime number is 104743
```

Published with MATLAB® R2025a