I.8 Primality Functions

Ashley Scurlock
Math 361B

February 20, 2019

If a number n is composite then the largest prime divisor is no larger than $\sqrt{n}$. So in my algorithm I created a for loop that would test if n was divisible by a number in the range 2 to $\sqrt{n}$, using math.floor() to round the square root down to the closest integer. Then if n was divisible it would return $False$. However, this loop doesn't work when $n = 1$ or $n = 2$ so I defined them separately where if $n = 1$ then it returned $False$ and if $n = 2$ it returned $True$. Then I created an else statement so any other values return $True$.