

Advice when using Python

Defining a function to test whether a positive integer greater than 1 is prime in Python:

There is no function built-in Python function to test an integer for primality. For a positive integer n greater than 1, the below function returns `isprime(n)` as 1 if n is prime and returns `isprime(n)` as 0 if it is not. Note the use of `int(n**0.5)` to find the biggest integer less than the square root of n . It's a good exercise to get students to try to devise such a function for themselves; however, one such example is given below. This program only works for integers $n > 1$ and more efficient programs are possible.

```
def isprime(n):  
    primetrue = 1  
    for i in range(2, int(n**0.5)+1):  
        if n%i==0:  
            primetrue=0  
    return primetrue
```