

# Primality Function

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22 February, 2019

My code starts with defining `prime_check`. Given this specific prompt, when `N` equals one or any composite number it returns `False`. In the beginning I was having a little bit of trouble understanding that we want python to return `'False'`, but not necessarily print it. However, the first code I had printed it and it was a nice way of debugging. After I figured that out I kept going on the prompt and figured out and if `N` is a composite number to put a break in the loop. This stops python from even looking further at this number and goes on to the next. Else, if `N` is a prime number it will return `True`. This piece of the code is the actual prime checker. The code block that comes after the prime checker satisfies the `nth` term bullet point. I created an empty list called `'primelist'` and set another variable called `'numofprime'` equal to the `nth` prime number I want python to output. The variable `'check'` indicates the first number to start at, and in this case it is 2 because we know 1 is not prime. This is where the first while loop starts and said the length `'primelist'` needs to be less than the `'numofprime'`. I stated that `prime` equals `false`, and in a new while loop set `false` equal to `prime` using the `≡`. I set `prime` equal to `prime_check` and made `'check'` add one number each time it loops through. The numbers were appended into the `'primelist'` and print out the `nth` prime number which again, was imputed in the `'numofprime'` variable. Finally python printed the last `nth` term along with a print statement.