

# Day-008-Ch-019(Prime NUmber Check

## Instructions

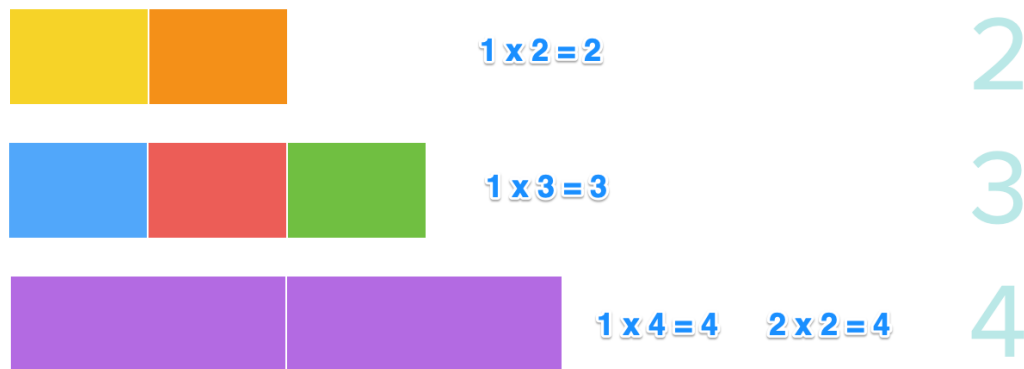
Prime numbers are numbers that can only be cleanly divided by itself and 1.

[https://en.wikipedia.org/wiki/Prime\\_number](https://en.wikipedia.org/wiki/Prime_number)

**You need to write a function** that checks whether if the number passed into it is a prime number or not.

e.g. 2 is a prime number because it's only divisible by 1 and 2.

But 4 is not a prime number because you can divide it by 1, 2 or 4.



Here are the numbers up to 100, prime numbers are highlighted in yellow:

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

## Example Input 1

73

## Example Output 1

It's a prime number.

## Example Input 2

75

## Example Output 2

It's not a prime number.

## Hint

1. Remember the modulus:

<https://stackoverflow.com/questions/4432208/what-is-the-result-of-in-python>

1. Make sure you name your function/parameters the same as when it's called on the last line of code.
2. Use the same wording as the Example Outputs to make sure the tests pass.

## Test Your Code

Before checking the solution, try copy-pasting your code into this repl:

<https://repl.it/@appbrewery/day-8-2-test-your-code>

This repl includes my testing code that will check if your code meets this assignment's objectives.

## Solution

<https://repl.it/@appbrewery/day-8-2-solution>

```
In [4]: def prime_checker(number):  
        is_prime = True  
        for i in range(2, number):  
            if number % i ==0:  
                is_prime = False  
        if is_prime:  
            print("its Prime Numbr : ")  
        else:  
            print("its not Prime Number : ")  
  
        n = int(input("Check this number: "))  
        prime_checker(number=n)
```

```
Check this number: 45  
its not Prime Number :
```

```
In [ ]:
```