Thema der Aufgabe:

Prime Mover

Aufgabenbeschreibung:

Using the C++ language, have the function primeMover (index) take the index parameter being passed and return the **Nth** prime number.

For example, if the function call is primeMover(16) then your program should return 53 because 53 is the 16th prime number.

A naive solution to this problem is to loop starting at 2, and at each number in the loop, check to see if it is a prime, if so then you increment a counter until the counter reaches N. This is a valid solution, but it is very slow and actually takes several seconds for the function to run if the input is a large number such as 10504.

Prime arrays:

```
[2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,..]
[0,1,2,3, 4, 5, 6, 7, 8, 9,10,11,12,13,14,15,..]
```

Eingabe:

- `16`

Ausgabe:

- `53`

Beispiel:

- Siehe Eingabe/Ausgabe!