## Homework 11

This homework is optional. In case of completion the points will be added to the total of all homeworks.

General comments:

- Do not forget to run some test cases.


## Problem 1 (15 points max)

The prime number is the integer which is divisible only by 1 and itself. We exclude 1 from the prime numbers list.

Write a function "primes_after" according to the following specification
function PrimeNumbersList $=$ primes_after (N, M)
which outputs a row vector of M prime numbers starting from N (inclusive). N and M are guaranteed to be positive integer numbers, no checks for this are necessary. Make sure your function follows the specification above exactly.

Examples:

```
>> primes_after (7,2);
ans=[7, 11]
>> primes_after (1,2);
ans=[ 2, 3 ]
```

In our speed comparison tests, $M$ will be in order of a $10^{6}$, and $N$ will be something like $10^{9}$ or even more.

- If you do the function right you will get only 5 points. I.e., it follows the specification and outputs valid results.
- You will get extra 5 points if your algorithm is the fastest in the class.
- You will get extra 5 points if your algorithm is faster than the instructor one.
- We will run the competition during the practice section.

