Functional Requirements

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| **Name:** | R. #1 Generate prime numbers. |
| **Description:** | The program must be able to generate (n) prime numbers. It must have three algorithms that can perform this task. |
| Input: | Amount (n) of prime numbers |
|  |  |
| Output: | A table bidimensional with de first (n) prime numbers |
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| **Name:** | R. #2 Get input |
| **Description:** | The program must be able to receive the input from the user via a GUI.  This input must be an integer (n) >0 and will be used to generate the prime numbers and create a matrix containing them in order to display them on the screen. |
| Input: | An input (n) that represents the maximum amount of prime numbers that must be generated. |
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| Output: | <None> |
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| **Name:** | R. #3 Generate Matrix |
| **Description:** | The program must generate a matrix containing all the integers from 0 to (n) where (n) is an input given by the user. |
| Input: | Input (n) |
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| Output: | A matrix containing all the numbers from 0 to (n) |
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| **Name:** | R. #4 Differeance the primes numbers |
| **Description:** | as the algorithm finds that the number is or is not a prime, that is, that allows to show in real time the process performed by the algorithm to find these prime numbers. |
| Input: | <None> |
|  |  |
| Output: | Green: Prime numbers |
|  | Red: Numbers not prime |

Diagram