RSA Algorithm

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The RSA algorithm starts with 2 prime numbers. To compute this numbers we created a PrimeNumber class, which randomly generates some big numbers and verifies the primality of them using the Miller-Rabin algorithm. The keys generation is also random for every run of the app.

To encrypt a message you have to type in the encryption box your message and, if the message is valid (it contains only a-z letters and blank space) it will be encrypted and displayed in the decryption box. To decrypt the message, press the decryption button and the plain text will be displayed in the first box. If the decryption text contains invalid characters, the decryption process is failed and the user notified about this.