

Week 2 Tasks

Mohamed Emary

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This Week Tasks

1. Encryption Algorithms
2. Code of each encryption algorithm
3. Numerical Methods Algorithms
4. Improve algorithm by using the numbers you get from radio labeling as passwords
5. Factors that affect the performance of encryption algorithms

We may use last year project numerical methods project

[Week Link on Github Repo](#)

Encryption Algorithms

1. AES
2. DES
3. RSA
4. Diffie–Hellman
5. SHA 1, 256, 3 algorithms

We may also add:

1. Blowfish
2. Twofish
3. Triple DES

Numerical Methods

Methods We already know:

1. Solving equations by factoring
2. general formula for solving quadratic equations
3. Graphical Solution
4. Jacobi
5. Gauss–Seidel
6. Newton
7. Bisection

Methods we don't know:

From Dr PDF:

1. Trisection Algorithm
2. Fixed point Algorithm
3. Secant method
4. False-Position Algorithm
5. Hybrid Algorithm 1 and 2

Outside:

1. Bairstow's Method

Distribution of Tasks

Name	Tasks
Mohamed Emary	AES, Secant
Mohamed Abdelfattah	SHA-1, (Diffie–Hellman OR Hybrid Algorithm 2)
Abdelfattah	SHA-256, False-Position
Dalia	RSA, Fixed Point
Sara	SHA-3, Hybrid Algorithm 1
Shrouk	DES, Trisection

Scheduled for a later time

1. Blowfish
2. Twofish
3. Triple DES
4. Bairstow's Method
5. **Foctors that affect performance of encryption algorithms**

Very Important Notes

- We all should review **Radio Labeling**.
- Add the code of each algorithm to the github repo.
- Use the presentation template from [here](#).