Arrays, Loops, and Conditionals

DHS CS Officers

Problem Set 1

1 Instructions for submission

- Email your solution to `dullescomputerscience@gmail.com`

- Provide your name, the question(s) you solved, and attach the solution in Java to the email

- You will receive points for (at most) three of the questions you submit, for 0.5 points each; however, feel free to do as many as you'd like!

2 Problems

1. Given an $N \times N$ matrix, find out the maximum number of rows that have the same product.

2. Convert a given `int` in base 10, convert it to base 4.

3. Given the date in MM/DD/YYYY format, print out the date in MLA format. (For example, 10/02/2021 should be converted to `2 October 2021`.

4. Given the word form of two digits and an operation, print out the word form of the result. (For example, the input `nine seven multiply` yields `sixty-three`.)

5. Find all prime numbers under 100.