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+ We have created 3 character arrays in order to break equations into characters.

including **line1[20], line2[20], line3[20].**

+ We have 3 boolean arrays in order to check whether variables are in the equation.

including **stateline1[3], stateline2[3], stateline3[3], stateline4[3].**

+ We have created 3 functions.

including **bool Isalphabet (char t):**

**+** A function that checks whether the data that is in the character format is in letters.

**void add1(int n, char array [], int position):**

+ A function that allows you to add **“1”** in front of the variables with a coefficient of **one.**

**void add\_n (int n, char array [], int position):**

+ A function that allows you to add the desired characters **before/after** the variables.

+All equations were scanned as **strings** and each of them was saved as characters in **arrays named line**.

+ The structure created from “for loops” was created for each equation. This structure has two main purposes.

+ In the scanned equations, printing the coefficients of the variables that coefficients are **one**

to the matrix as **“1”**.

+ In the scanned equations, printing the coefficients of the variables that aren’t represent as

**zero** to the matrix.