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either as a literal constant or as some kind of variable. The latter may allow its elements to be mutated and the length changed, or it may be fixed (after creation). A string is generally considered as a data type and is often implemented as an array data structure of bytes (or words) that

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Offered by University of California San Diego. Discrete Mathematics is the language of Computer Science. One needs to be fluent in it to work in many fields including data science, machine learning, and software engineering (it is not a coincidence that math puzzles are often used for

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Independent vectors v_1, \dots, v_d whose linear combinations give each vector in V as $v = C_1v_1 + \dots + C_dv_d$. V has many bases, each basis gives unique c 's. A vector space has many bases!

Cayley-Hamilton Theorem. $p_A(A) = \det(A - \lambda I)$ has $p_A(A) = \text{zero matrix}$.

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