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printf prints the float as a decimal, not float

arm - unsigned char

x86 - signed char

In C, arrays must be of same type

- 1 dimension vector

- 2 matrix

- higher tensor

C has 1 dimensional memory, have to linearize matrix,

- Array address arithmetic

malloc describes a block of bytes, but there are values before the pointer

declare array:

type name = { ... }

C stores floats as a bit pattern, to make sure there's no confusion about the representation

clicking switches for individual registers

C stores matrix in row major order

m[3][3]
↑ ↓
row column

Matrix multiplication

$\sim n^3$

critical in machine learning

merge sort

for linked lists, fast

It's the algorithm that matters

- Blom speed up theory

arrays are pass by reference

- pass pointer to array

&" address of "operator

Size of operator

- do not rely on it to give us size of array

dereferencing a pointer = following pointer to actual address & value

Alias -

different pointer pointing to a value w/ y

arrays can expand in C

Binary search is the fastest
requires array to be sorted