Data Structures

Condensed Notes

May 4, 2025

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Chapter 1

Formula

1.1 Address calculation

Single dimension: base + size*(j-lowerBound) for a two dimensional matrix whose row index starts at r_f and ends at r_l and whose column index starts at c_f and ends at c_l the matrix is $M[r_l - r_f + 1, c_l - c_f + 1]$ Address of M[i,j] is

- Row Major : $base + [(c_l c_f + 1)(i r_f) + (j c_f)] * size$