

std::vector<double>	val	size $\geq \text{nnz}(\mathbf{A}) := \#\{(i, j) \in \{1, \dots, n\}^2, a_{ij} \neq 0\}$
std::vector<size_t>	col_ind	size = val.size()
std::vector<size_t>	row_ptr	size $n + 1$ & row_ptr[n + 1] = val.size() (sentinel value)