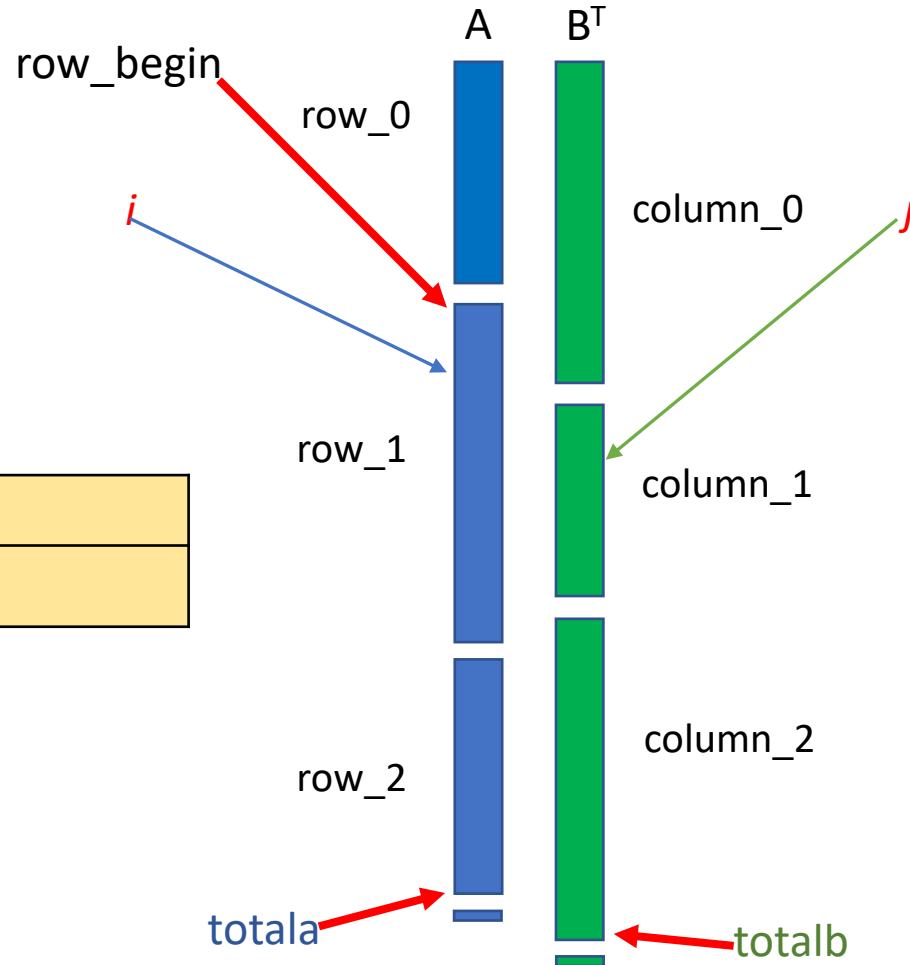


$A_{3 \times 7}$

$B_{7 \times 3}$

$B^T_{3 \times 7}$

row	1
column	1



```
for (i = 1; i <= totala; ) {
    column = new_b[1].row;
    for (j = 1; j <= totalb+1; ) {
        /* multiply row of a by column of b */
        if (a[i].row != row) {
            storesum(d, &totald, row, column, &sum);
            i = row_begin;
            for ( ; new_b[j].row == column; j++)
                ;
            column = new_b[j].row;
        }
        else if (new_b[j].row != column) {
            storesum(d, &totald, row, column, &sum);
            i = row_begin;
            column = new_b[j].row;
        }
        else switch (COMPARE(a[i].col, new_b[j].col)) {
            case -1 : /* go to next term in a */
                i++; break;
            case 0 : /* add terms, go to next term in a and b */
                sum += (a[i++].value * new_b[j++].value);
                break;
            case 1 : /* go to next term in b */
                j++;
        }
    } /* end of for j <= totalb+1 */
    for ( ; a[i].row == row; i++)
        ;
    row_begin = i; row = a[i].row;
} /* end of for i <= totala */
d[0].row = row_a; d[0].col = cols_b;
d[0].value = totald;
}
```