

```

for( j = 0; j < n; j+=nb ){
    jb = (( nb < n-j ) ? ( nb ) : ( n-j ));

    for( k= j+jb; k < n; k+=nb ){
        kb = (( nb < n-k ) ? ( nb ) : ( n-k ));

        //      read A[ k:k+kb, j:j+jb ]

        for( kk= 0; kk < j; kk++ ){
            //      read A[ k:k+kb, kk ]
            //      read A[ kk, j:j+jb ]

            for( ii= k; ii < k+kb; ii++ )
                for( jj= j; jj < j+jb; jj++ )
                    A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

            //      erase A[ k:k+kb, kk ]
            //      erase A[ kk, j:j+jb ]

        }

        //      write A[ k:k+kb, j:j+jb ]

    }

    for( k= j+jb; k < n; k+=nb ){
        kb = (( nb < n-k ) ? ( nb ) : ( n-k ));

        //      read A[ j:j+jb, k:k+kb ]

        for( kk= 0; kk < j; kk++ ){
            //      read A[ j:j+jb, kk ]
            //      read A[ kk, k:k+kb ]

            for( ii= j; ii < j+jb; ii++ )
                for( jj= k; jj < k+kb; jj++ )
                    A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

            //      erase A[ j:j+jb, kk ]
            //      erase A[ kk, k:k+kb ]

        }

        //      write A[ j:j+jb, k:k+kb ]

    }

    //      read A[ 1:jb, 1:jb ]

    for( kk= 0; kk < j; kk++ ){
        //      read A[ 1:jb, kk ]
        //      read A[ kk, 1:jb ]

        for( ii= j; ii < j+jb; ii++ )
            for( jj= j; jj < j+jb; jj++ )
                A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

        //      erase A[ 1:jb, kk ]
        //      erase A[ kk, 1:jb ]

    }

    for( jj = j; jj < j+jb; jj++ ){
        for(ii = j; ii < jj; ii++)
            for(kk = j; kk < ii; kk++)
                A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

        for(ii = jj; ii < j+jb; ii++)
            for(kk = j; kk < jj; kk++)
                A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

        for( ii = jj+1; ii < j+jb; ii++ )
            A[ ii ][ jj ] /= A[ jj ][ jj ];

    }

    for(ii = j+jb; ii < n; ii++){
        // read A[ ii, 1:jb ]

        for( jj = j; jj < j+jb; jj++ ){
            for(kk = j; kk < jj; kk++)
                A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];

            A[ ii ][ jj ] /= A[ jj ][ jj ];

        }

        // write A[ ii, 1:jb ]

    }

    for(jj = j+jb; jj < n; jj++){
        // read A[ 1:jb, jj ]

        for( ii = j; ii < j+jb; ii++ ){
            for(kk = j; kk < ii; kk++){
                A[ ii ][ jj ] -= A[ ii ][ kk ] * A[ kk ][ jj ];
            }

        }

        // write A[ 1:jb, jj ]

    }

    //      write A[ 1:jb, 1:jb ]

}

```