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/* Includes, system */
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

/* Includes, cuda */
#include <cuda_runtime.h>
#include <cublas_v2.h>
#include <shrQATest.h>

/* Matrix size */
#define N (275)

/* Host implementation of a simple version of sgemm */
static void simple_sgemm(int n, float alpha, const float *A, const float *B,
                        float beta, float *C)
{
    int i;
    int j;
    int k;
    for (i = 0; i < n; ++i) {
        for (j = 0; j < n; ++j) {
            float prod = 0;
            for (k = 0; k < n; ++k) {
                prod += A[k * n + i] * B[j * n + k];
            }
            C[j * n + i] = alpha * prod + beta * C[j * n + i];
        }
    }
}

```