

Exercise 4

Use OpenMP directives to express as much parallelism as possible in the following code segment from Winograd's matrix multiplication algorithm.

```
for (i = 0; i < m; i++) {
    rowterm[i] = 0.0;
    for (j = 0; j < p; j++)
        rowterm[i] += a[i][2 * j] * a[i][2 * j + 1];
}
for (i = 0; i < q; i++) {
    colterm[i] = 0.0;
    for (j = 0; j < p; j++)
        colterm[i] += b[2 * j][i] * b[2 * j + 1][i];
}
```