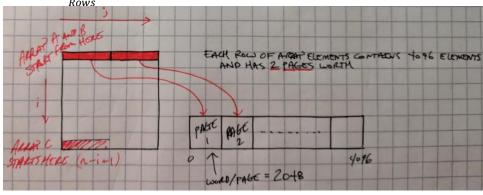
```
(a) Row-major order for i := 1 to 4096 do for j := 1 to 4096 do {
A[i,j] := A[i,j] * B[i,j]; // \text{ After this assume } B[i,j] \text{ is in memory}
B[i,j] := C[n-i+1,j] * B[i,j];
2W \qquad 2R \qquad 2R \qquad R
2 \text{ fetchs of page } A \qquad 2 \text{ writes of dirty page } A \qquad 2 \text{ fetchs of page } B \qquad 2 \text{ writes of dirty page } B \qquad 2 \text{ fetchs of page } C \qquad 10 \text{ total pages of read and write from } i = 1, ..., 4096 \qquad 10 \cdot 4096 = 40960 \text{ total page transfers}
```



```
(b) Column-major order for i\coloneqq 1 to 4096 do for j\coloneqq 1 to 4096 do { A[j,i]\coloneqq A[j,i]*B[j,i]; \text{ // After this assume }B[j,i] \text{ is in memory } \\ A[j,i]\coloneqq C[j,n-i+1]*B[j,i]; \\ A[j,i]\coloneqq C[j,n-i
```