1 point

Imagine that we a zipping two tensors `a` and `b` of shape (I, 1) and (1, J) where I is very large and J is a small fixed size. (this is a special case of the zip in the homework)

```
def specialized_zip_cuda(out, a, b):
    x = numba.cuda.blockIdx.x * THREADS + numba.cuda.threadIdx.x
    thread_x = numba.cuda.threadIdx.x

shared = numba.cuda.shared.array(J)
    if x < I:
        if thread_x < J:
            shared[thread_x] = b[thread_x]
            numba.cuda.syncthreads()
        local = a[x]
        for j in range(J):
            out[x, j] = local * shared[j]</pre>
```

1 point

Imagine that I = 1000 and J = 100, what is the maximum number global *reads* are there from any thread?

imagine that i = 1000 and J = 100, what is the maximum number global reads are there from any thread:

Type your answer...

Imagine that I = 1000 and J = 100, how many shared *reads* are there from each thread?

Type your answer...

XP.

1 point

| Provide that | = 1000 and | = 100 what is the mass number of shored manager ** united ** from any three d3

Imagine that I = 1000 and J = 100, what is the max number of shared memory *writes* from any thread?

Type your answer...