```
__global__void mul( float *Ad. float *Bd. float *Cd. int msize. int tile. int task){
extern __shared__ float shared[];// first half is for Shared A, second half is for Shared B
int tx, ty;
int r, c;
float Cv;
float Av, Bv;
int m;
for ( tx = 0; tx < task; tx++){
        c = blockIdx.x * tile + threadIdx.x * task + tx;
        for ( ty = 0; ty < task; ty++){
                r = blockIdx.y * tile + threadIdx.y * task + ty;
                Cv = (float)0;
                Av = Ad[ r * msize]; // initialize
                Bv = Bd[c]:
                for ( m = 0; m < msize; m++){}
                        shared[ threadIdx.v * task + ty] = Av; // put cur tile to shared mem
                        shared[ tile * msize + threadIdx.x * task + tx] = Bv;
                        __syncthreads():
                        if((m + 1) < msize){
                                Av = Ad[r * msize + m + 1]; //load next tile to req
                                Bv = Bd[m * msize + c];
                        Cv += shared[ threadIdx.y * task + ty ] * shared[ tile * msize +
                            threadIdx.x * task + tx];
                        __syncthreads():
                Cd[r * msize + c] = Cv;
}
```