Program output

	Checksum	Time in millesecond	
naive cuda	122756344698240.00	0.038	
tiled cuda	122756344698240.00	0.017	
cuDNN	122756344698240.00	0.082	

How to run

```
module purge;

module load cuda/9.0.176;

module load cudnn/9.0v7.0.5

make clean && make

sbatch run.sh
```

result is in lab3.out

Discussion

Why cuDNN is even slower? I think it is because cuDNN might preform some pre-process work like padding and striding when running **cudnnGetConvolutionForwardAlgorithm** function, which means it is not a pure kernel call.

Also, using shared memory speeds up convolution computation.

If we can put filter data into constant memory in gpu, I believe the speed up is far more drastic. (The only question is whether large filter kernel with large K and FW/FH can suit constant area or not)