CS/EE 217
Lab 3
Histogram
Due Wednesday May 9 at 11:59:59pm

1) Unzip lab3-starter into your SDK projects directory or working Linux directory

2) Examine the source files kernel.cu and main.cu and complete the functionality of the histogram kernel.

4) The program takes two arguments, m (number of elements) and n (number of bins). The default values are 1 million and 4096.

5) Answer the following questions:

a. Use visual profiler to report relevant statistics (e.g. utilization and memory hierarchy related) about the execution of your kernels. Did you find any surprising results?

b. What, if any, limitations are there on m and n for your implementation? Explain these limitations and how you may overcome them with a different implementation.

Grading:

Please upload your zipped directory (after cleaning up executables and any unnecessary files) to iLearn. Your submission will be graded on the following aspects.

Correctness (60%)
1. Histogramming works for a range of m and n values

Efficiency (20%)
* Efficient/Effective implementation is used in both cases.

Report (20%)
Answers to the questions above