Module 13 Events and Command-Queues Assignment

Develop a simple program that utilizes OpenCL command-queues and events to create a program that responds to a variety of inputs by outputting different events to the host program based on the input value.

There are two opportunities for one-time bonuses (for this and any future assessments) if the code is part of your final project and/or there is a continuous integration process for building and testing your code. You will need to screen capture output (command line) of your code executing with different input parameters.

Rubric:

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| Take input from a file or from the command line | 25% |
| Produce multiple events based on input | 25% |
| Place events into a command-queue | 25% |
| Test harness executes at least 5 runs of your program. | 10% |
| Output timing or other metrics for comparison of different data sets/inputs | 5% |
| Quality of your code, measured by use of constants, well-named variables and functions, and useful comments in code | 10% |
| One-time bonus: Your submission will be part of your final project | 5% |
| One-time bonus: Present proof that your code is being built and if possible tested via a continuous integration process. This can be on your own machine, the gitlab-CI instance on absaroka.jhuep.com, or similar set-up | 5% |