

CO332 - Heterogenous Parallel Computing

Assignment 4

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Q1

Reduction Algorithm

`input.raw` and `output.raw` are created using `dataset_generator.cpp`

Running the program

```
g++ dataset_generator.cpp
./a.out
nvcc solution.cu
./a.out input.raw output.raw
```

Q2

Reduction - Using Thrust

`input.raw` and `expected_out.raw` are created using `dataset_generator.cpp`

Running the program

```
g++ dataset_generator.cpp
./a.out
nvcc solution.cu
./a.out input.raw expected_output.raw
```

Q3

Scan Algorithm

`input.raw` and `output.raw` are created using `dataset_generator.cpp`

Running the program

```
g++ dataset_generator.cpp
./a.out
nvcc solution.cu
./a.out input.raw output.raw
```

Q4

Scan - Using Thrust

`input.raw` and `expected_out.raw` are created using `dataset_generator.cpp`

Running the program

```
g++ dataset_generator.cpp  
./a.out  
nvcc solution.cu  
./a.out input.raw expected_output.raw
```