

Alperen Degirmenci
CS 205 - HW 4
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Problem 3

Three main problems I have identified were: 1) Threads need to be synchronized after d_{data} gets copied into shared memory, 2) $blockDim$ may not be divisible by 2, and 3) $d_{min}[0]$ gets written to by every thread, which is inefficient. The implementation runs the kernel 1000 times on randomly generated data, and the results get compared to $np.min()$. Kernel execution time is 53 $\mu seconds$.