

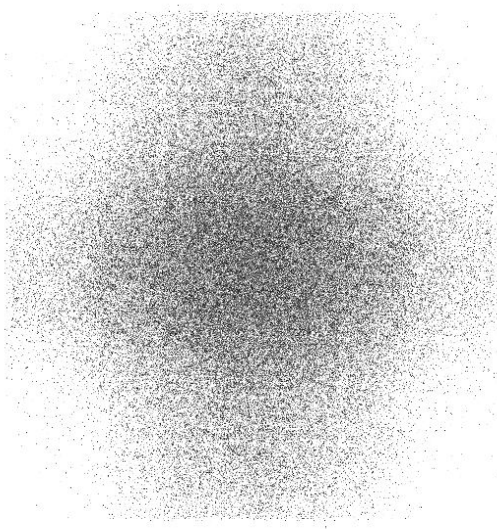
Report Assignment 1

Question 5.

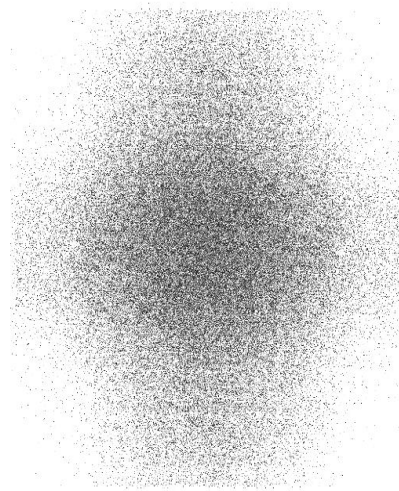
Input Image 1.



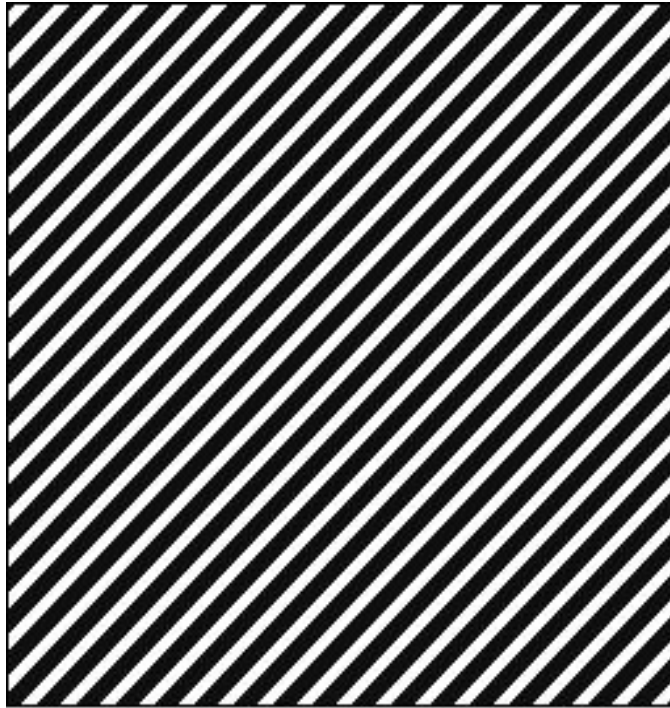
Output
Implemented FFT



In-built FFT

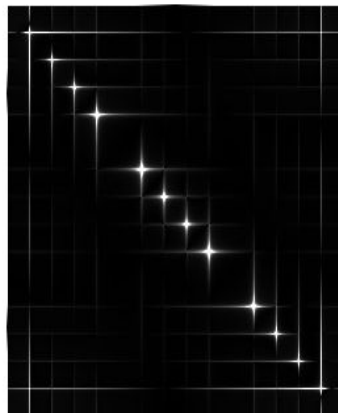


Input Image 2.

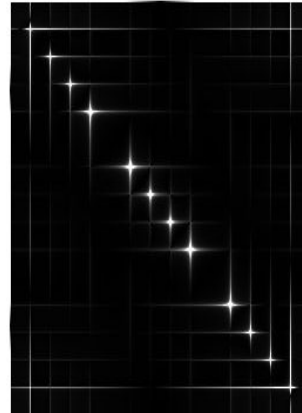


Output

Implemented FFT



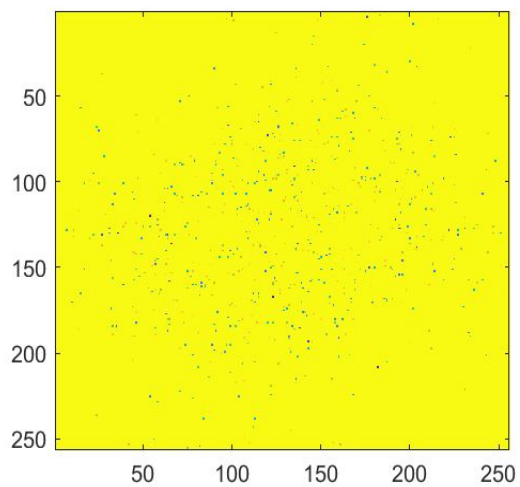
In-built FFT



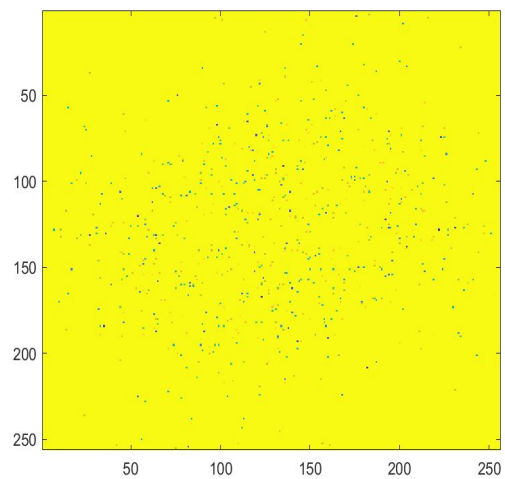
Input Image 3.



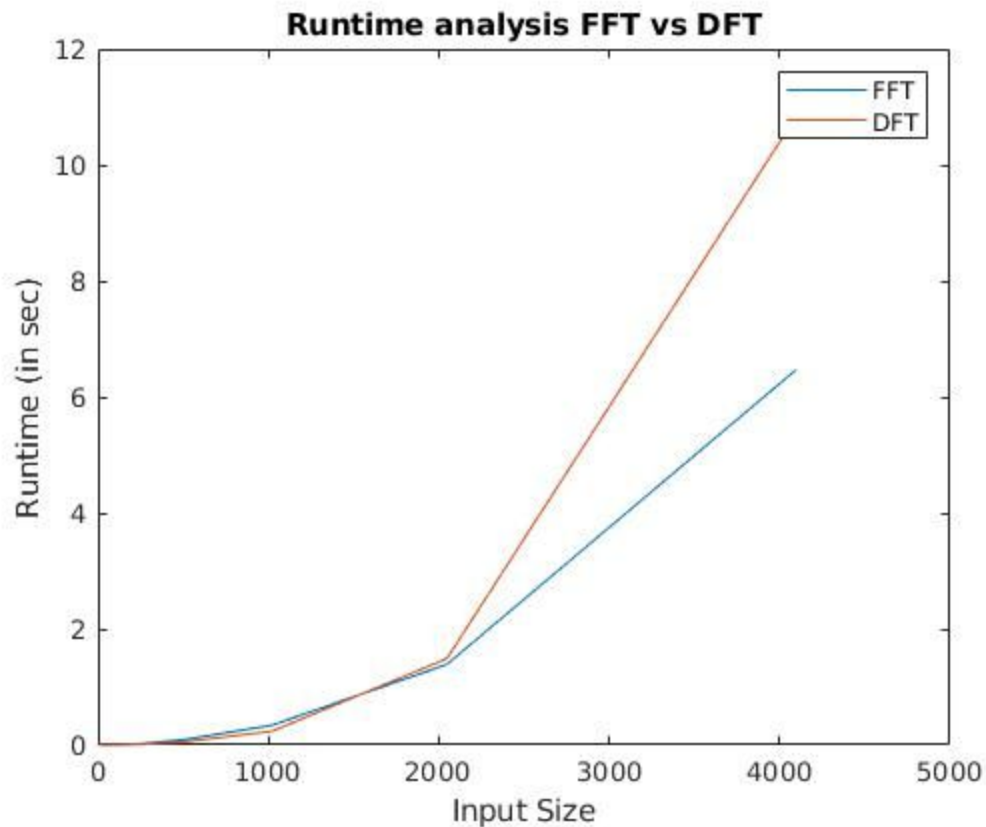
**Output
Implemented FFT**



In-built FFT



Runtime Comparison of DFT and FFT:



When the input is small the time taken by both FFT and DFT are same but when we increase the size of input DFT is increasing steeply than FFT . This implies that FFT has linear time Complexity and DFT has exponential time complexity