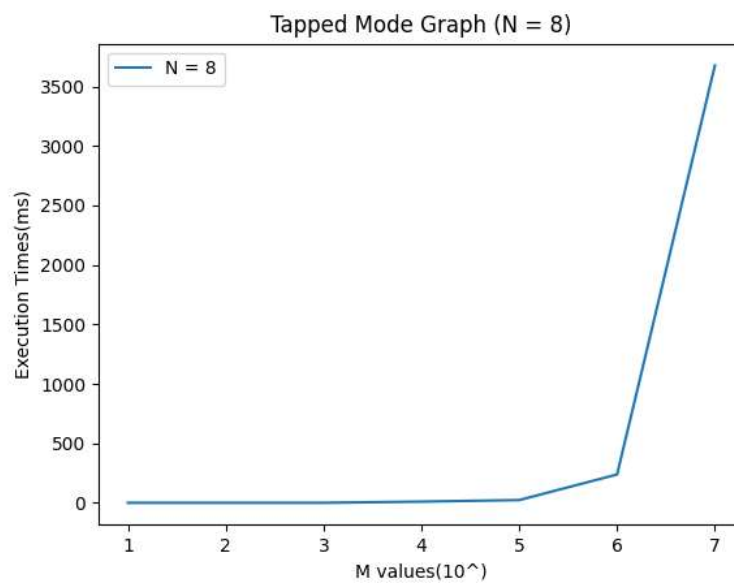
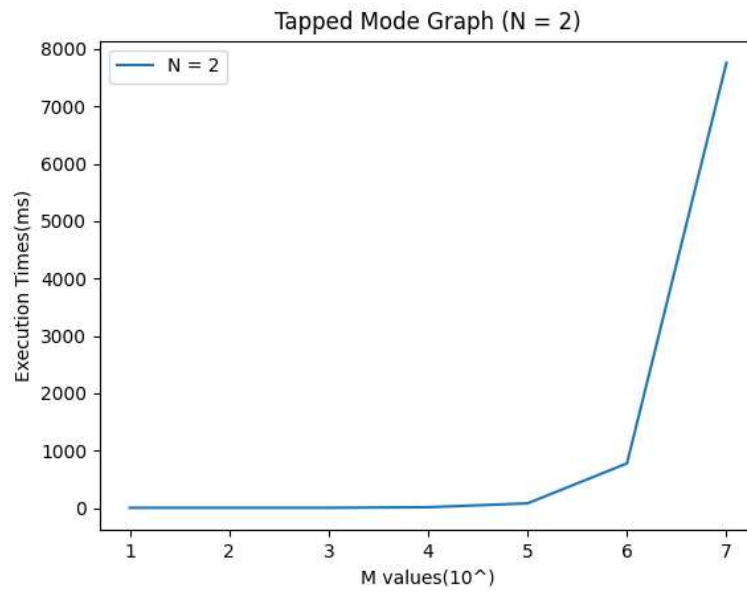
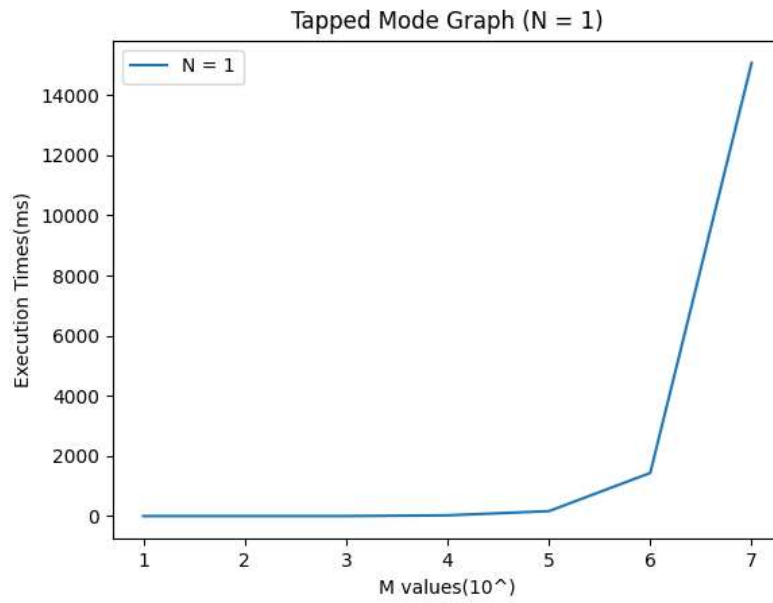
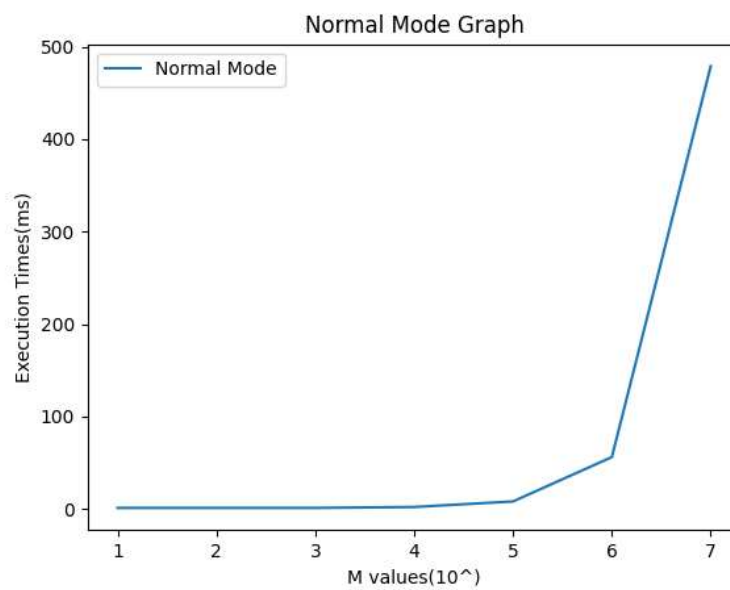
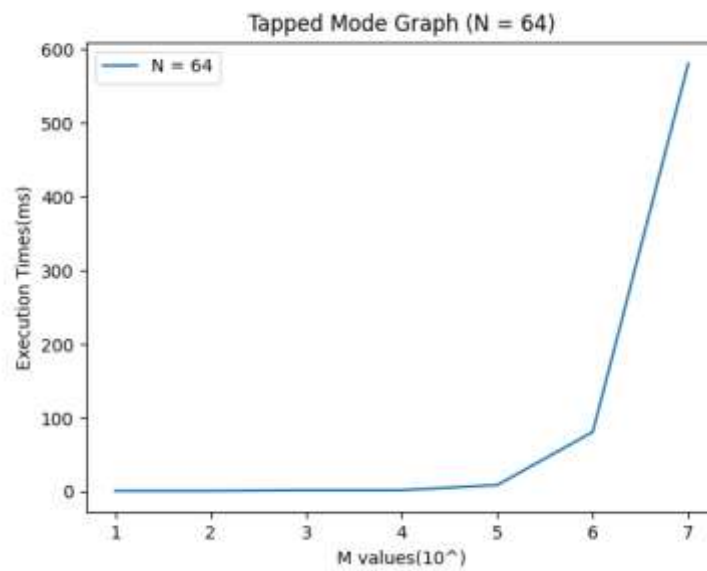
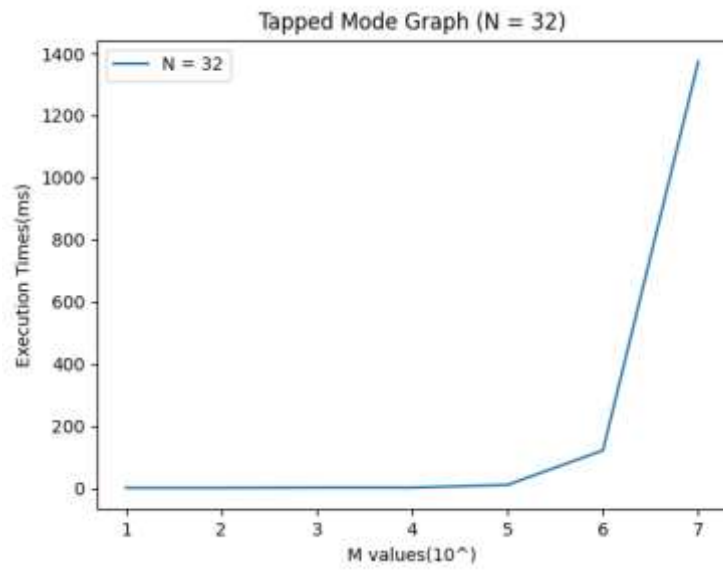


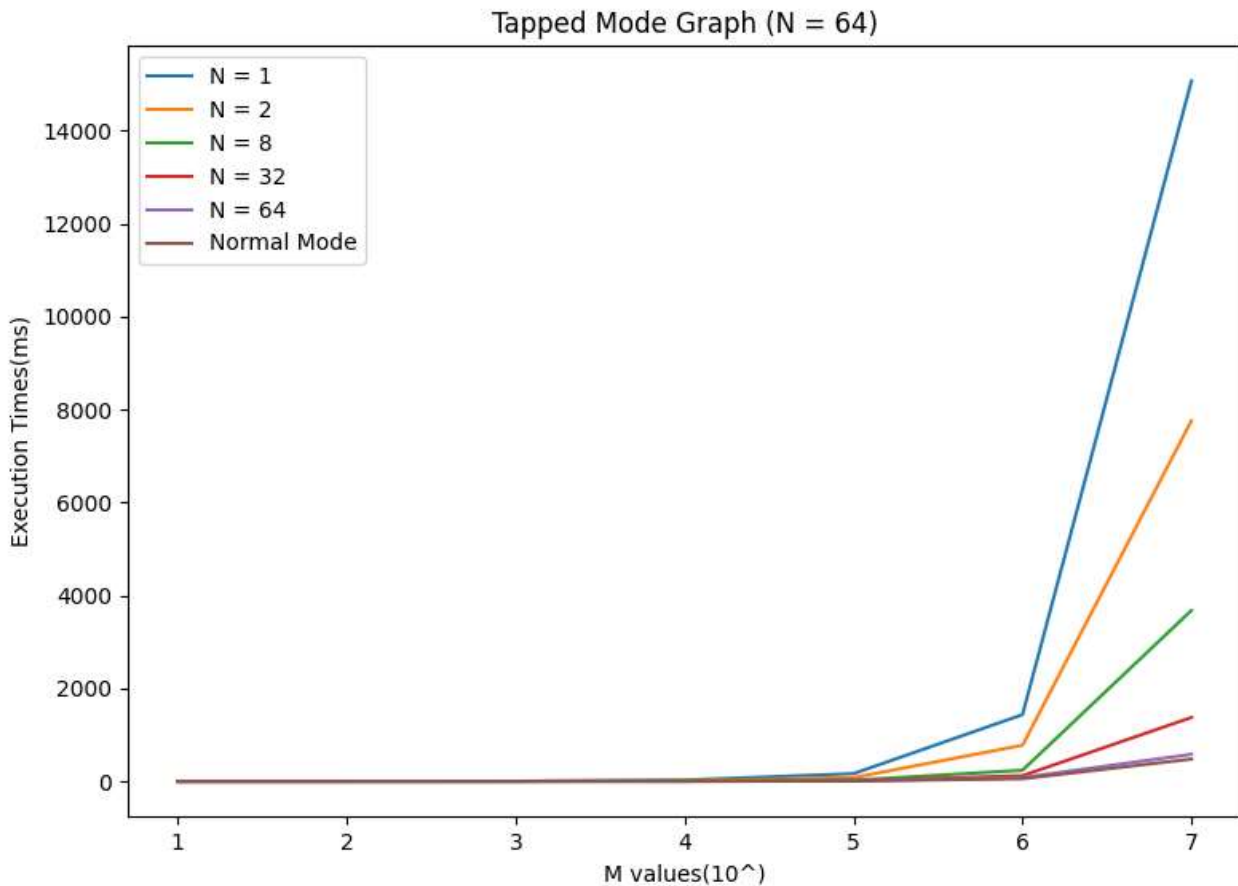
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Conclusion:

Firstly, N=1 is runned means parent reads 1 byte from child1 and writes 1 byto to child 2 with 2 pipes. After that N = 2, N = 8, N = 32 and N = 64 are used because of the see differences between graphs. When N value increases, time consuming decreases because parent can write more bites respectively. Also, as we expected, when M value is increased the execution time increased exponentially. Because in order to creating random alphanumeric values and write and read them are became more difficult for processors. It takes nearly $O(n)$ for creating and $O(n)$ for read and write means $O(n^2)$. Therefore our graphs seem exponential graphs. When normal mode is used, there is no read and write byte to byte and just 1 pipe is used means consuming less time. Thus, we can get best times when we use normal mode. If last graph is considered it can obviously said that when M value is increased, reading and writing need more time and we should increase the N value means how many bytes that parent uses when reading and writing.