Cüneyt EREM

21202398

Project 2

REPORT

In this project, time execution of the merged values can be different depends on different input size, N value and R value.

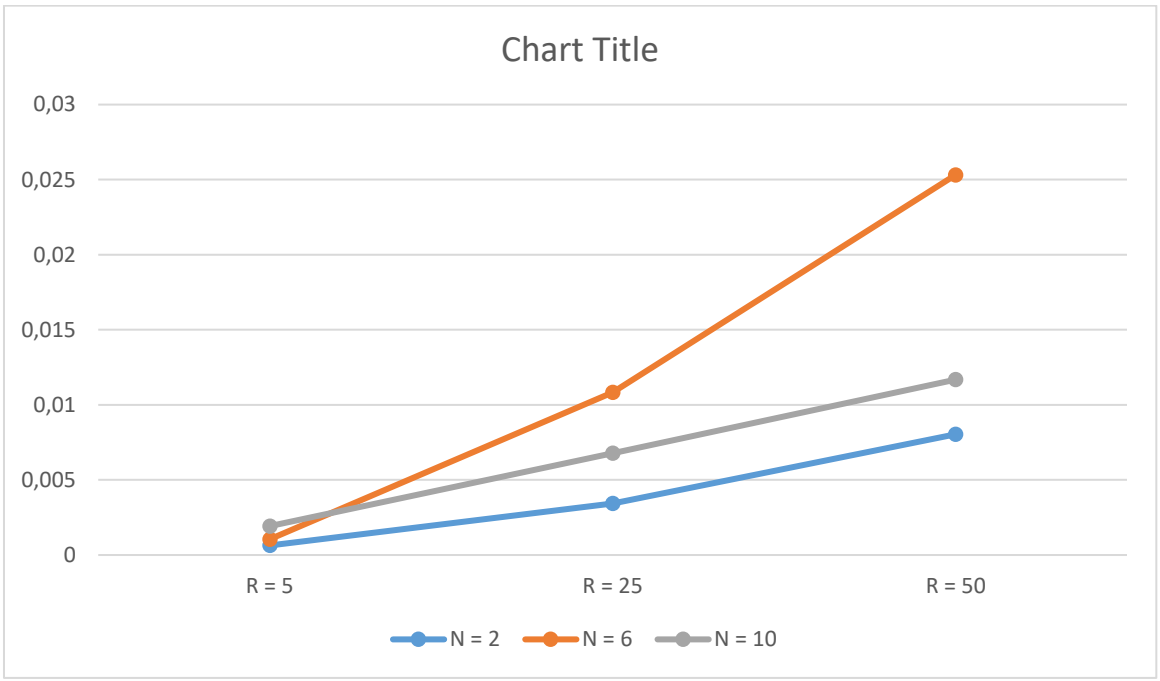
M = 100, 1000, 10 000, 100 000

N = 2, 6, 10

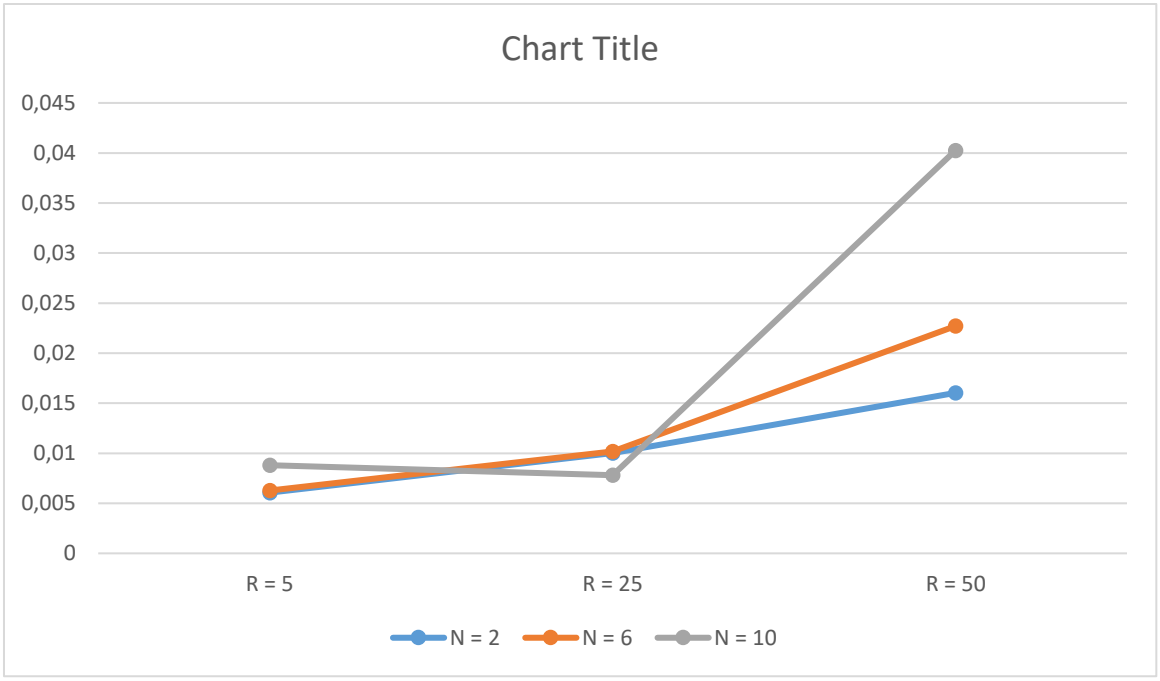
R = 5, 25, 50

All input data are different. So, tables resulted in like followings;

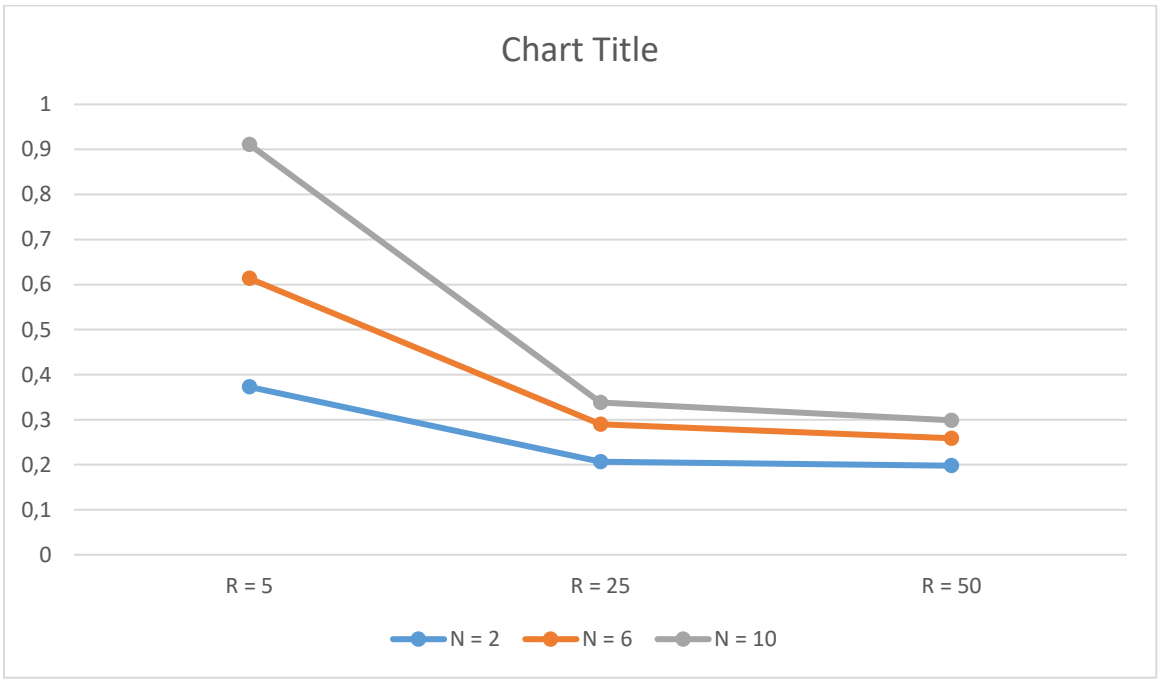
Input size of M = 100, N = 2, 6, 10, R = 5, 25, 50



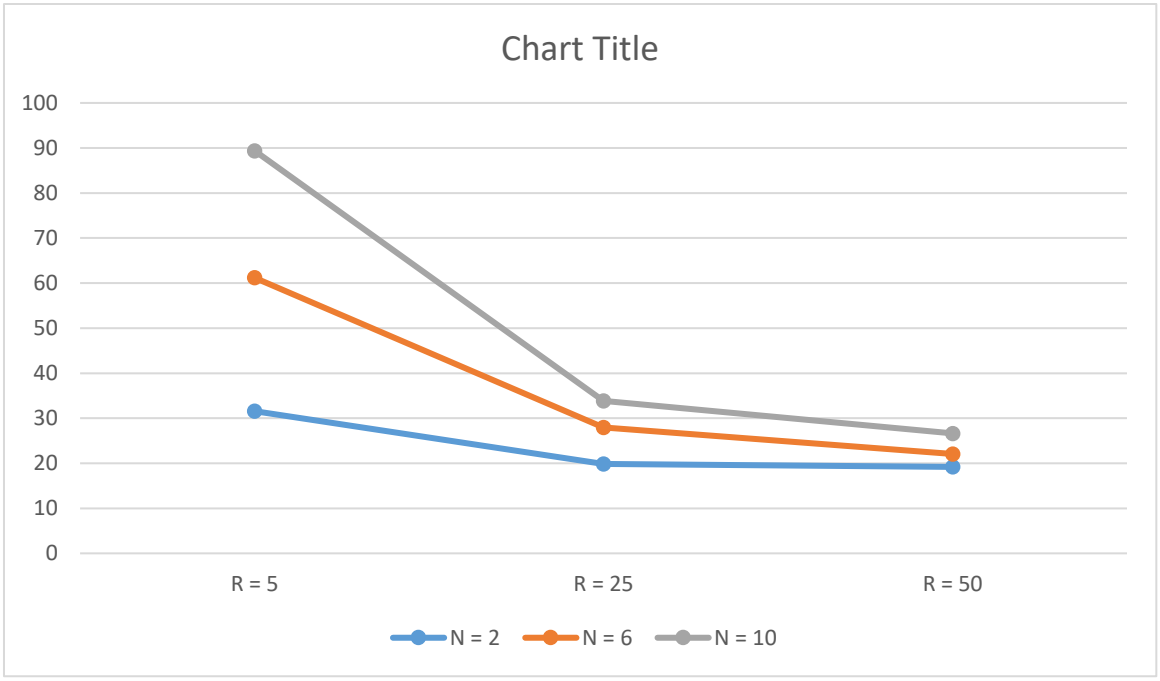
Input size of M = 1000, N = 2, 6, 10, R = 5, 25, 50



Input size of M = 10 000, N = 2, 6, 10, R = 5, 25, 50



Input size of M = 100 000, N = 2, 6, 10, R = 5, 25, 50



In conclusion, if we use very small input size (100), then when R increases, then time of execution is also increases in all N input values. If we use average input size (1000), when R increases, time of execution first decreases and after increases. If we use big input sizes (10000 or 100000), when R increases, execution of time decreases because computer CPU has to work harder if R is small value.