SYSTEM CONFIGURATIONS:

Processor: Intel® Core™ i5-10300H CPU @ 2.50GHz × 8

Memory: 7.6 GiB

OS: Ubuntu 20.04.2 LTS Disk Capacity: 1.0 TB

Relations taken

R – No of tuples 40000

Two columns (X : size - 5, Y : size - 10)

S – No of tuples 50000

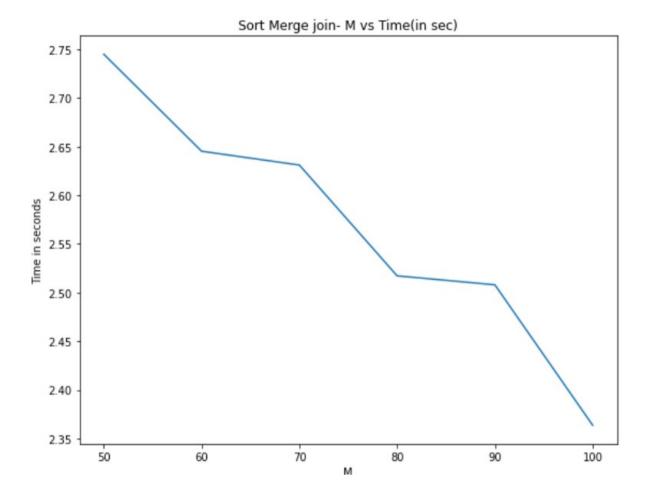
Two columns (Y : size - 10, Y : size - 15)

Output file: join of R and S

Comparison

	ALG	O: SORT MERGE JOIN	
		SIZE OF R: 40000	
		SIZE OF S: 50000	
M		Time taken in seconds	
	50		2.74484395980835
	60		2.64521837234497
	70		2.63100576400757
	80		2.51714682579041
	90		2.50794506072998
	100		2.36367416381836

GRAPH



ALGO: HASH JOIN					
SIZE OF R: 40000					
SIZE OF S: 50000					
M	r	Time taken in seconds			
	50		0.293467521667481		
	60		0.308394432067871		
	70		0.288764715194702		
	80		0.296599626541138		
	90		0.298675775527954		
	100		0.294010400772095		

