Sohan Chatterjee

SSW 315

Lab 12 Complexity

18 November 2022

Complexity Analysis - Baby Names

Method	Computational Complexity	Storage Complexity
babyNames()	O(1)	O(1)
goThroughAllFiles(String path, int gender)	O(n)	O(n)
buildMapToSort(String f, int gender)	O(n)	$O(n^2)$
getMapByYear(int gender, String year)	$O(n^3)$	$O(n^3)$
sortMap(HashMap<String, Integer> unsortedMap)	$O(n^2)$	O(n)
printMap(int gender, String year)	O(n)	$O(n^2)$
reset()	O(1)	O(1)
main(String[] args)	O(n)	$O(n^2)$