Result Of Sort

Day: Thursday
Date: 31/03/2022

WickSort	10	50	100	
				1
accouging	5.6667	88.6667	159 - 333	
des con din q	6.3333	2O8 • 3333	105.6667	
Random Ordur	7.0	40.333	28.333	
nearly sorted	5.6667	960333	155-333	

Emplaination: Divide and conquer, you pick an element as pivot and partition the given Arrays, the partitioning puts waything in place worst case = 0(n2) Bestcase = 0(n09n)

It is the fastest compared to another sorts in this ascending and descending in itselfour fattest Random's the slowest for higher values values keep increasing, it slow, unstable and in place

murgusort	10	50	100
asunding	13.0	136-333	224.333
desciending	9 • 66 6	131. 0	262.2
Randomordur	16 • 333	496.333	178.0
nearly 50rt	10+333	118.333	357.0

Emplaination: Divide and conquer algorithm, divides Array in two have instead of merge which partitions, then it merges the two sorts. Time complexity of neogn) for all worst, average, best in itself descending is batest second ascending third nearly and bount random order. It has a good speed, not in place stuble

	1		
quicksortmedian3	10	50	100
Ascording	6.667	16 7 • 666	391.0
desending	7.333	127.0	552.334
Random Order	12.333	69•333	620.0
Nearly sort	9.666	86.0	248.333

Emplanation:

Quicksort median 3 is unimprovement of quicksort, but in my case it is buing caused 6 times so the time complexity has increased however in real, baster than defence pivot. It is inplace and unstable. Time complexity is 0 (N LOGN) worst case is 0 (N 2). As and ling is butest, dens cending on second, nearly sort third and randomorder bowth. Improves chances of getting a good pivot.

RandomQuicksort	10	50	100
As conding	23.333	198.333	46900
Descendin g	25.333	225.665	1210 • 33.3
Randomordur	3 <i>3</i> .3336	410.333	485.0
Nearlysorted	31.666	460.667	55 6° O

Emplaination: chooses nardom value and not middle index if it choose middle then would've been fuster. Not best case on sorted or reversed data. Does a seending facest, descending on second, nearly on third and random on fourth. Time computately same as leader sort worst case same as well