## Output of code:

Set 1 observations:			
ALGORITHM	Ν	COMPARISONS	TIME
Quick sort	1000	248502	0.06245112419128418
MY_CHOICE_QSORT	1000	62002	0.015660762786865234
Quick sort	10000	124749	0.03120279312133789
MY_CHOICE_QSORT	10000	124251	0.046866416931152344
Quick sort	50000	124749	0.03128933906555176
MY_CHOICE_QSORT	50000	124251	0.046814918518066406
Quick sort	100000	124749	0.031244277954101562
MY_CHOICE_QSORT	100000	124251	0.03124260902404785
Quick sort	500000	124749	0.04686307907104492
MY_CHOICE_QSORT	500000	124251	0.03124403953552246
Set 2 observations:			
Set 2 observations: ALGORITHM	N	COMPARISONS	TIME
Set 2 observations: ALGORITHM Quick sort	N 1000	COMPARISONS 124749	TIME 0.046863555908203125
ALGORITHM			=
ALGORITHM Quick sort	1000	124749	0.046863555908203125
ALGORITHM Quick sort MY_CHOICE_QSORT	1000 1000	124749 124251	0.046863555908203125 0.03129076957702637
ALGORITHM Quick sort MY_CHOICE_QSORT Quick sort	1000 1000 10000	124749 124251 124749	0.046863555908203125 0.03129076957702637 0.046816349029541016
ALGORITHM Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT	1000 1000 10000 10000	124749 124251 124749 124251	0.046863555908203125 0.03129076957702637 0.046816349029541016 0.03127264976501465
ALGORITHM Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT Quick sort	1000 1000 10000 10000 50000	124749 124251 124749 124251 124749	0.046863555908203125 0.03129076957702637 0.046816349029541016 0.03127264976501465 0.046880483627319336
ALGORITHM Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT Quick sort Quick sort MY_CHOICE_QSORT	1000 1000 10000 10000 50000 50000	124749 124251 124749 124251 124749 124251	0.046863555908203125 0.03129076957702637 0.046816349029541016 0.03127264976501465 0.046880483627319336 0.03123021125793457
ALGORITHM Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT Quick sort MY_CHOICE_QSORT Quick sort	1000 1000 10000 10000 50000 50000 100000	124749 124251 124749 124251 124749 124251 124749	0.046863555908203125 0.03129076957702637 0.046816349029541016 0.03127264976501465 0.046880483627319336 0.03123021125793457 0.04686617851257324
ALGORITHM Quick sort MY_CHOICE_QSORT	1000 1000 10000 10000 50000 50000 100000	124749 124251 124749 124251 124749 124251 124749 124251	0.046863555908203125 0.03129076957702637 0.046816349029541016 0.03127264976501465 0.046880483627319336 0.03123021125793457 0.04686617851257324 0.031204700469970703

## Results:

The graphs are obtained by taking average time of 20 runs of the code for executing the respective algorithms.



