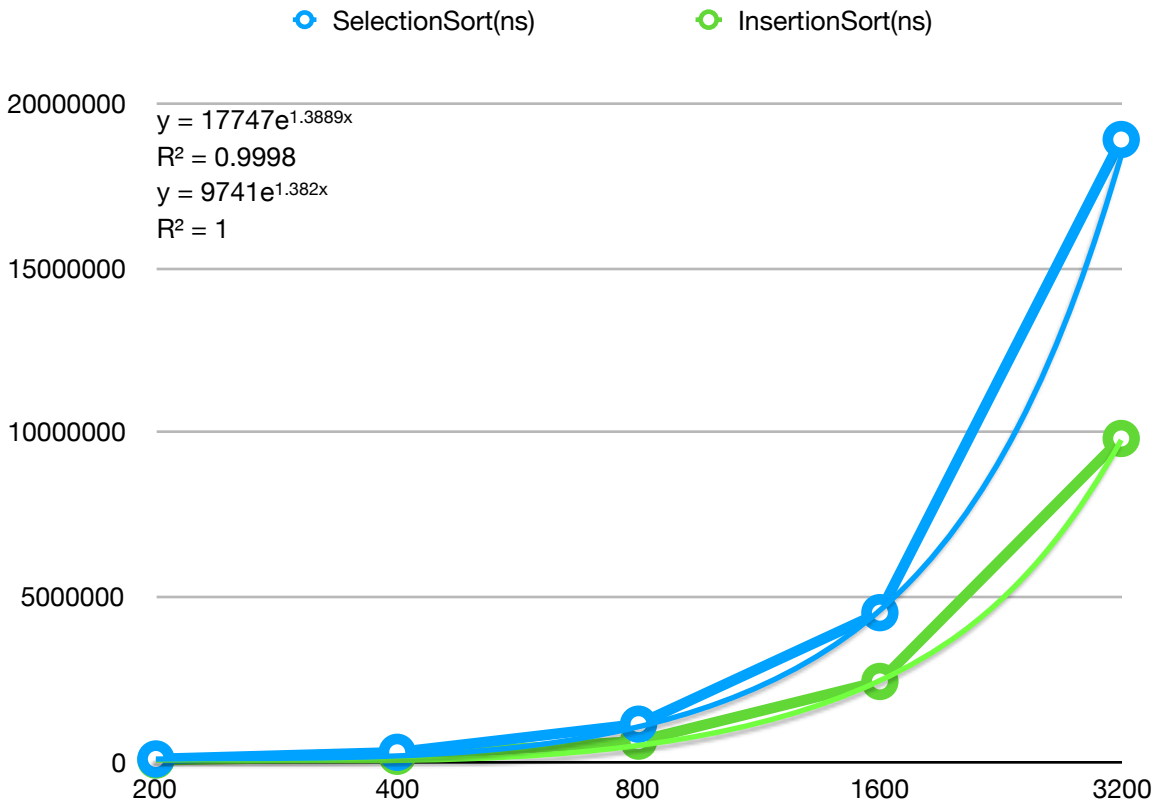


Runing time of reverse-ordered arrays:		
n	SelectionSort:	InsertionSort:
200	73673.08	38629.74
400	276268.98	155931.90
800	1130468.28	615345.24
1600	4518849.84	2428815.22
3200	18894461.08	9810912.18

Running time of reverse-ordered arrays:

N	SelectionSort(ns)	InsertionSort(ns)
200	73673.08	38629.74
400	276268.98	155931.90
800	1130468.28	615345.24
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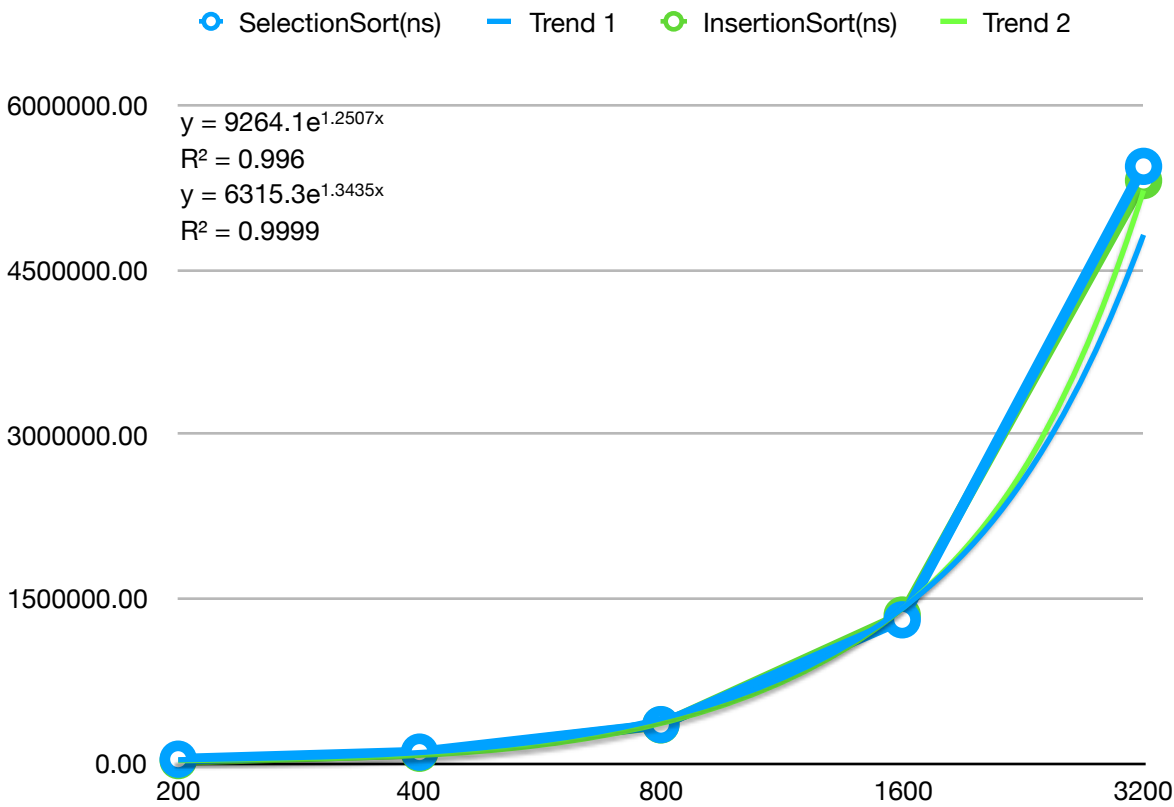


For the chart of SelectionSort, the trend line is $y=17747e^{(1.3889x)}$, and $e^{1.3889}=4.01$, thus $y\approx17747*4^x$;
 For the chart of InsertionSort, the trend line is $y=9741e^{(1.382x)}$, $e^{1.382}=3.98$, thus $y\approx9741*4^x$;
 Therefore, for the reversed-order arrays, when n is expanded by twice, the time or both SelectionSort and InsertionSort will expend by 4 times.

Runing time of random arrays:		
n	SelectionSort:	InsertionSort:
200	37472.00	24693.32
400	102015.00	91501.00
800	352536.34	349952.02
1600	1307840.04	1351327.56
3200	5441193.52	5312081.44

Running time of random arrays

N	SelectionSort(ns)	InsertionSort(ns)
200	37472.00	24693.32
400	102015.00	91501.00
800	352536.34	349952.02
1600	1307840.04	1351327.56
3200	5441193.52	5312081.44



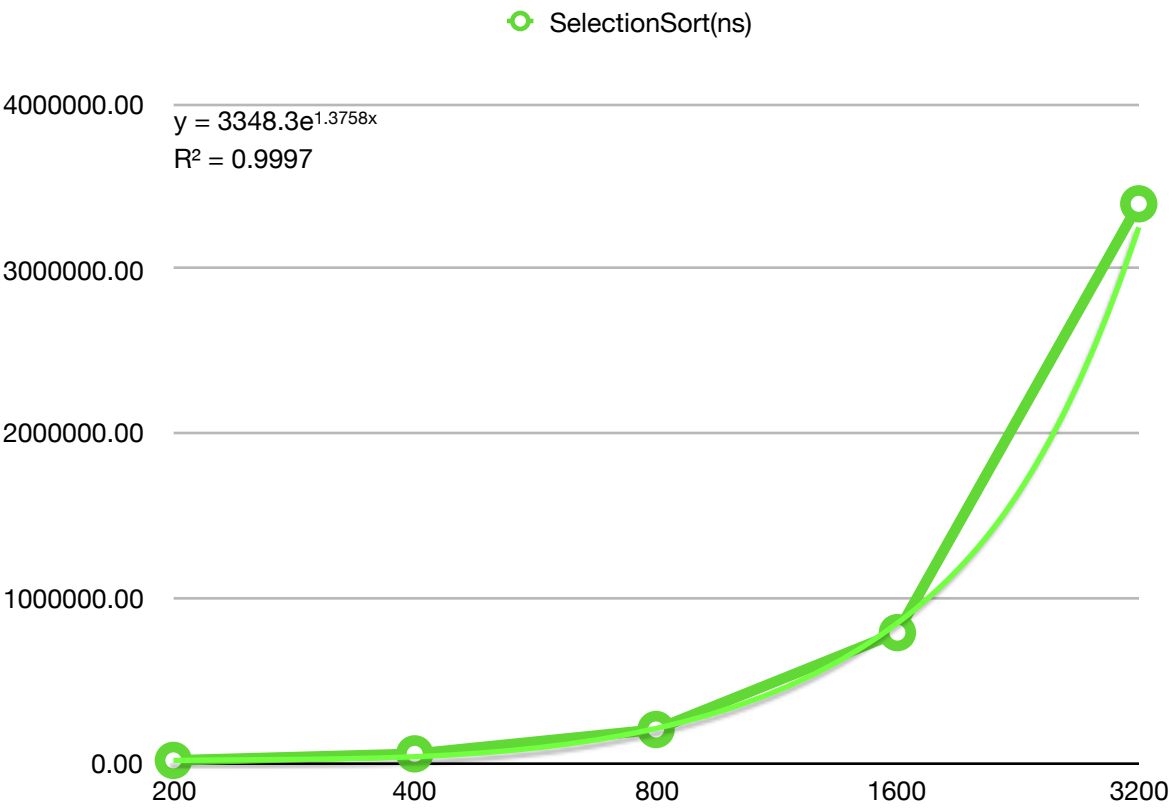
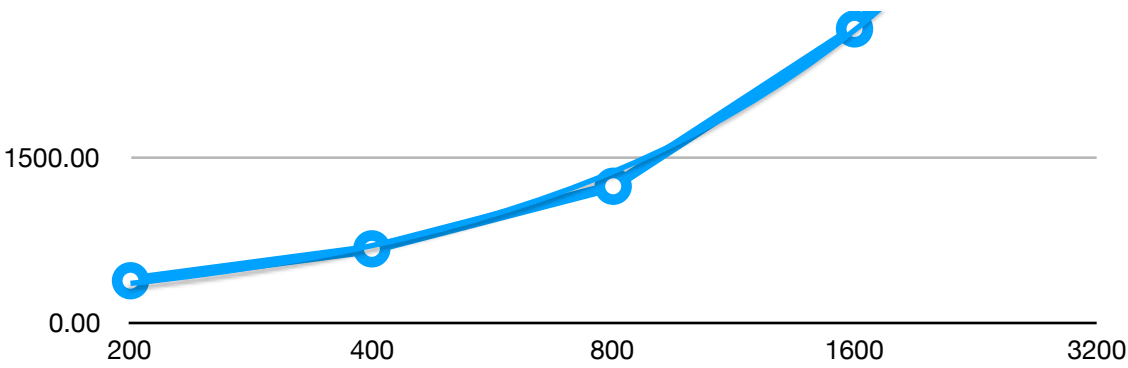
For the chart of SelectionSort, the trend line is $y=6315.3e^{(1.3435x)}$, and $e^{1.3889}=3.83\approx4$;
 For the chart of InsertionSort, the trend line is $y=6264.1e^{(1.2507x)}$, $e^{1.382}=3.50$;
 Therefore, for the random arrays, when n is expanded by twice, the time for both SelectionSort and InsertionSort will expend by 4 times.

Runing time of ordered arrays:		
n	SelectionSort:	InsertionSort:
200	13481.26	380.30
400	53088.22	679.20
800	201044.92	1241.56
1600	789844.78	2675.82
3200	3395430.74	5348.40

Running time of ordered arrays



N	SelectionSort(ns)	InsertionSort(ns)
400	53088.22	671.20
800	201044.92	1241.56
1600	789844.78	2675.82
3200	3395430.74	5348.40



For the chart of SelectionSort, the trend line is $y=3348.3e^{(1.3758x)}$, and $e^{1.3758}=3.96\approx4$;
For the chart of InsertionSort, the trend line is $y=182.93e^{(0.667x)}$, $e^{0.667}=1.95\approx2$;
Therefore, for the ordered arrays, when n is expanded by twice, the time for InsertionSort will expend by twice, while for the SelectionSort, it will expend by 4 times.