Piotr Świątek

146 551

Grupa 4B

Algorytmy sortowania

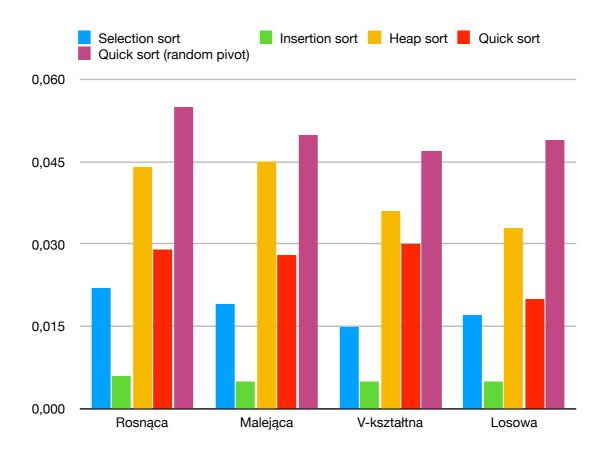
Benchmark hardware:



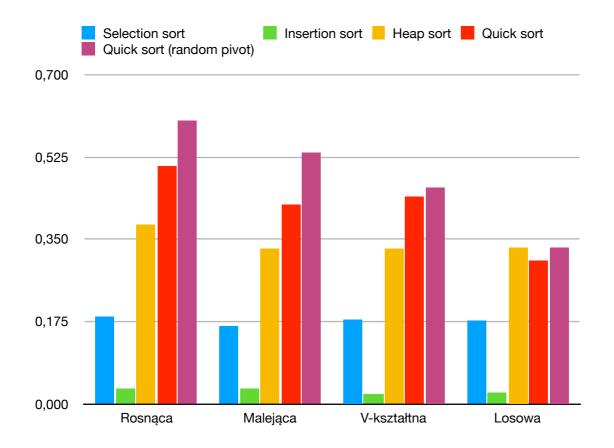
Software:



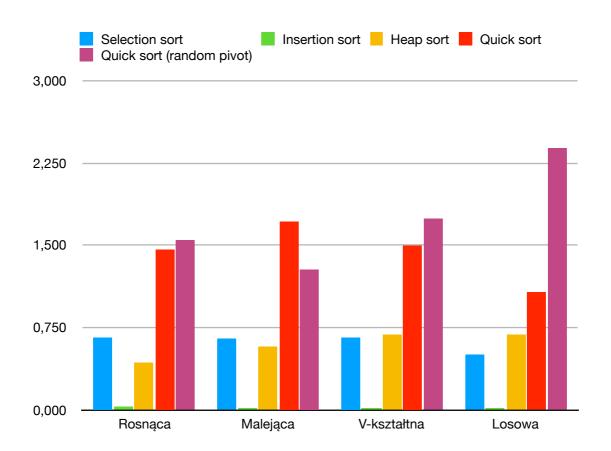
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	0.022 ms	0.006 ms	0.044 ms	0.029 ms	0.055 ms
Tablica male- jąca	0.019 ms	0.005 ms	0.045 ms	0.028 ms	0.05 ms
Tablica V- kształtna	0.015 ms	0.005 ms	0.036 ms	0.03 ms	0.047 ms
Tablica loso- wa	0.017 ms	0.005 ms	0.033 ms	0.02 ms	0.049 ms



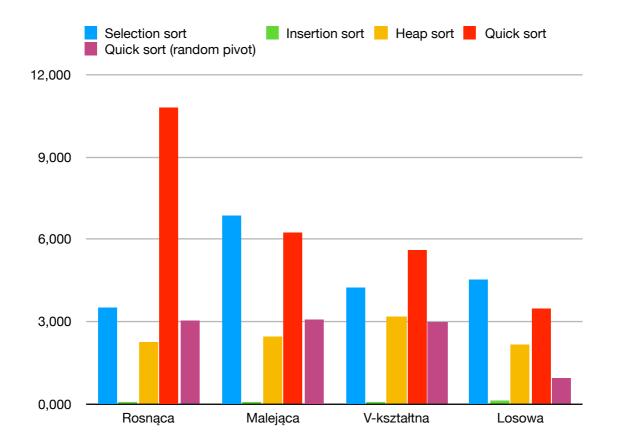
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	0.185 ms	0.031 ms	0.379 ms	0.505 ms	0.603 ms
Tablica male- jąca	0.165 ms	0.033 ms	0.329 ms	0.423 ms	0.534 ms
Tablica V- kształtna	0.179 ms	0.019 ms	0.329 ms	0.441 ms	0.459 ms
Tablica loso- wa	0.176 ms	0.022 ms	0.333 ms	0.303 ms	0.333 ms



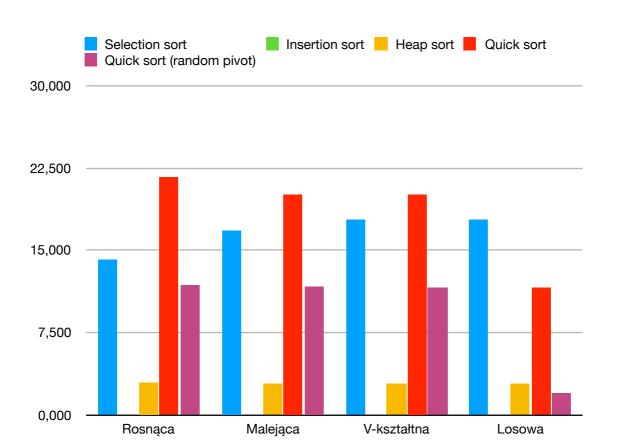
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	0.652 ms	0.02 ms	0.428 ms	1.455 ms	1.543 ms
Tablica male- jąca	0.646 ms	0.018 ms	0.57 ms	1.716 ms	1.275 ms
Tablica V- kształtna	0.66 ms	0.017 ms	0.695 ms	1.497 ms	1.737 ms
Tablica loso- wa	0.499 ms	0.018 ms	0.677 ms	1.077 ms	2.388 ms



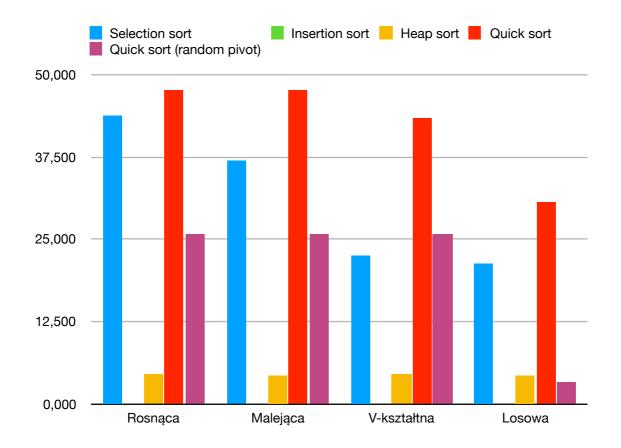
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	3.532 ms	0.077 ms	2.244 ms	10.781 ms	3.01 ms
Tablica male- jąca	6.875 ms	0.073 ms	2.415 ms	6.222 ms	3.058 ms
Tablica V- kształtna	4.255 ms	0.075 ms	3.18 ms	5.595 ms	2.986 ms
Tablica loso- wa	4.547 ms	0.083 ms	2.135 ms	3.458 ms	0.924 ms



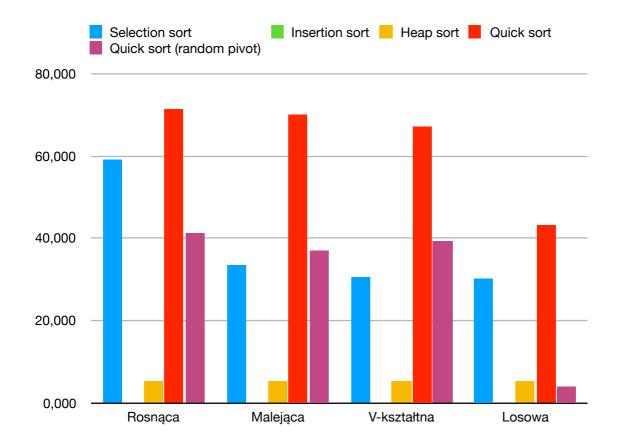
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	14.142 ms	0.098 ms	2.984 ms	21.686 ms	11.847 ms
Tablica male- jąca	16.835 ms	0.095 ms	2.835 ms	20.024 ms	11.727 ms
Tablica V- kształtna	17.769 ms	0.095 ms	2.854 ms	20.081 ms	11.571 ms
Tablica loso- wa	17.124 ms	0.096 ms	2.77 ms	12.617 ms	1.94 ms



	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	43.742 ms	0.142 ms	4.511 ms	47.713 ms	25.668 ms
Tablica male- jąca	36.793 ms	0.169 ms	4.364 ms	47.559 ms	25.787 ms
Tablica V- kształtna	22.518 ms	0.141 ms	4.497 ms	48.387 ms	25.846 ms
Tablica loso- wa	21.381 ms	0.143 ms	4.36 ms	30.583 ms	3.217 ms



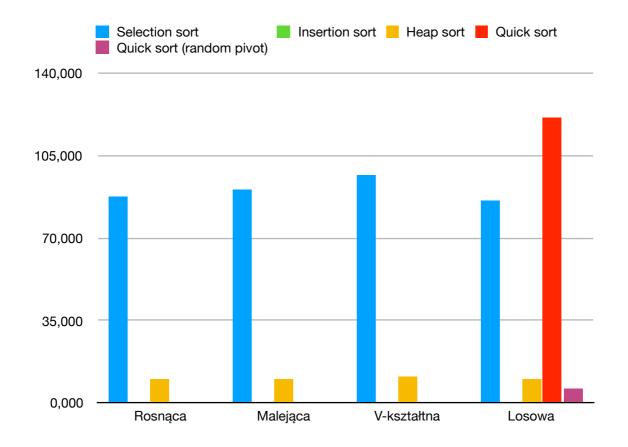
	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	59.118 ms	0.171 ms	5.355 ms	71.273 ms	41.309 ms
Tablica male- jąca	33.286 ms	0.169 ms	5.341 ms	69.948 ms	37.02 ms
Tablica V- kształtna	30.473 ms	0.168 ms	5.364 ms	67.157 ms	39.158 ms
Tablica loso- wa	30.085 ms	0.187 ms	5.335 ms	43.252 ms	3.804 ms



	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	87.576 ms	0.289 ms	9.867 ms	N/A*	N/A**
Tablica male- jąca	90.425 ms	0.29 ms	9.983 ms	N/A*	N/A**
Tablica V- kształtna	96.525 ms	0.371 ms	10.911 ms	N/A*	N/A**
Tablica loso- wa	86.063 ms	0.295 ms	9.859 ms	120.85 ms	6,188 ms

N/A* - Error in maximum recursion depth exceeded in comparison

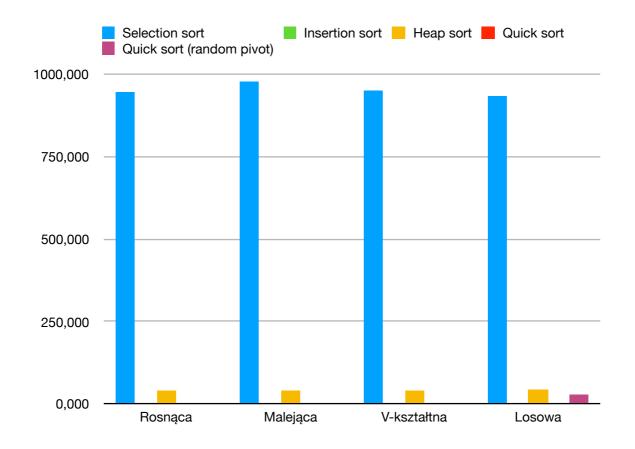
N/A**- Error in maximum recursion depth exceeded while calling a Python object



	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	945.765 ms	0.994 ms	38.706 ms	N/A*	N/A**
Tablica male- jąca	977.607 ms	0.991 ms	38.823 ms	N/A*	N/A**
Tablica V- kształtna	951.539 ms	0.99 ms	40.07 ms	N/A*	N/A**
Tablica loso- wa	936.406 ms	1.015 ms	41.988 ms	N/A*	24.329 ms

N/A* - Error in maximum recursion depth exceeded in comparison

N/A**- Error in maximum recursion depth exceeded while calling a Python object



	Selection sort	Insertion sort	Heap sort	Quick sort	Quick sort (random pivot)
Tablica rosną- ca	3758.994 ms	1.973 ms	83.613 ms	N/A*	N/A**
Tablica male- jąca	3889.975 ms	1.972 ms	85.12 ms	N/A*	N/A**
Tablica V- kształtna	3790.361 ms	1.968 ms	89.315 ms	N/A*	N/A**
Tablica loso- wa	3818.09 ms	2.113 ms	87.938 ms	N/A*	48.139 ms

N/A* - Error in maximum recursion depth exceeded in comparison

N/A**- Error in maximum recursion depth exceeded while calling a Python object

