Experimental Methods in Computer Science

The following table shows the amount of memory spent by four algorithms to solve a particular problem. You would like to check whether there are significant differences in the amont of memory used by the four algorithms.

A	B	C	D
5.01	5.59	3.02	4.51
6.23	5.13	4.79	5.73
5.98	5.33	3.46	5.48
5.31	4.65	4.12	4.81
5.13	5.52	4.51	4.63
5.65	4.92	4.42	5.15

1)   Formalize the appropriate hypotheses, test the required assumptions and consider both parametric and non-parametric alternatives. Discuss the results obtained.