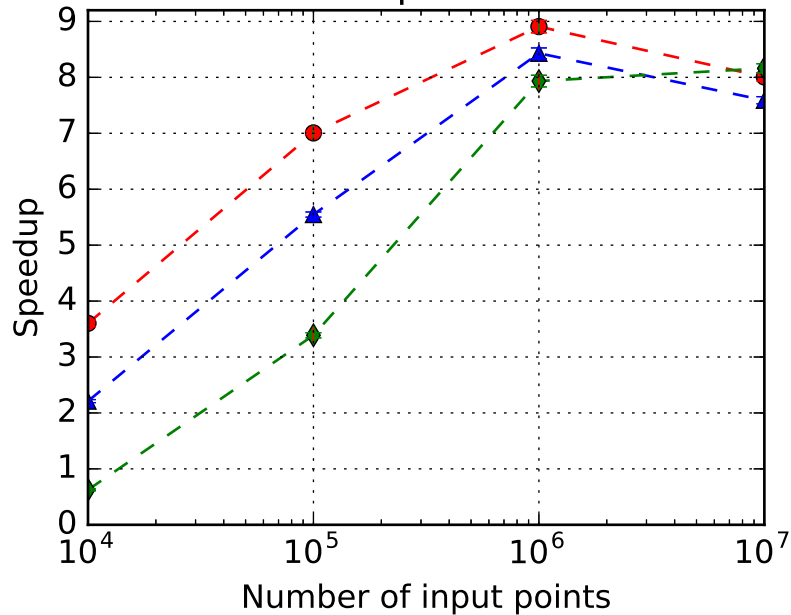Speedup of the algorithms changing input size