SSD - Software Support for DNA Algorithmic Self-Assembly

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Job description: The objective of DNA Algorithmic Self-Assembly is to design/simulate/implement collections of DNA molecules which, according to well established interactions, would autonomously assemble into complex systems (or structures, or patterns, etc). Most of the times such designs are automated and come as the output of multi-component software pipelines. Your work implies taking part in the algorithmic design of these pipelines and (most importantly) delivering the software implementation. For the design part, the job requires good knowledge of algorithms; knowledge of graph theory and complexity theory is a plus. For the implementation part, the job requires good C/C++ programming skills and good knowledge of creating shell scripts. Knowledge and experience of working in Mathlab is a plus. The applicant should provide evidence of programming experience.