The automation of many refactoring transformations -- for improving the quality of existing software -- requires powerful and flexible method extraction capabilities. Unfortunately, modern refactoring tools are limited to the extraction of a single fragment of code. In this lecture I show how advanced algorithms and tools for the extraction of reusable computations from multiple (non-contiguous) code fragments enable the automation of such refactoring transformations. The key challenge is in moving program statements, turning multiple fragments into contiguous code, while preserving the original program's semantics and observable behavior.

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