Fast and accurate localization of software defects continues to be a difficult problem since defects can manifest as unexpected results at different locations. They are often intricate in nature and require persistent investigation. Layered architecture and multi-team or multi-module scenarios further compound the problem. Fixing issues is a time critical task. Hence, assisting developers with a set of possible buggy source code files can reduce the time taken by a developer to analyze a bug. Presently, developers often rely on their knowledge and simple search. However, such a knowledge is volatile and localized - limited to the files directly associated with a developer. With the knowledge of bug reports, this project aims at investigating how a staggered search with query reformulation can help identify buggy source files in a multi-team or multi-module scenarios.