

# Error Localization & Relevance Analysis

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**Definition 1** (Relevancy). *Let  $\pi$  be a feasible error trace and let  $\pi[i]$  be an assignment statement of the form  $x := \text{expr}$ . We call the statement  $\pi[i]$  **re-sponsible for the error** if there exists some mapping  $f(y, z, ..)$  such that the trace  $\pi'$  that is obtained from  $\pi$  by replacing  $\pi[i]$  by  $x := f(y, z, ...)$  is infeasible.*