Execute all program paths symbolically collecting a path assertion per program path: $se: Program \times (Variable \rightarrow Term) \rightarrow \mathcal{P}(Assertion)$

 \backslash se(Π , Σ_0) \equiv sp(Π , Σ_0)

Definition

- Let Π be a program.
- Let x, y, z, ... be the program variables of Π .

Symbolic execution of
$$\Pi$$
 with symbolic store $\Sigma_0 \equiv x = x_0 \land y = y_0 \land z = z_0 \land ...$ satisfies:

Question Express $\operatorname{sp}(\Pi, \varphi) \equiv \exists x_0, y_0, z_0, \dots : \varphi(x_0/x, y_0/y, z_0/z, \dots) \land \bigvee \operatorname{se}(\Pi, \Sigma_0)$