$$kill_{\mathsf{RD}}([x:=a]^{\ell}) = \{(x,?)\}$$
 $\qquad \qquad \cup \{(x,\ell') \mid B^{\ell'} \text{ is an assignment to } x \text{ in } S_{\star}\}$
 $kill_{\mathsf{RD}}([\mathsf{skip}]^{\ell}) = \emptyset$
 $kill_{\mathsf{RD}}([b]^{\ell}) = \emptyset$
 $gen_{\mathsf{RD}}([x:=a]^{\ell}) = \{(x,\ell)\}$
 $gen_{\mathsf{RD}}([\mathsf{skip}]^{\ell}) = \emptyset$
 $gen_{\mathsf{RD}}([b]^{\ell}) = \emptyset$

$$data \text{ flow equations: } \mathsf{RD}^{=}$$

$$\mathsf{RD}_{entry}(\ell) = \begin{cases} \{(x,?) \mid x \in FV(S_\star)\} & \text{if } \ell = init(S_\star) \\ \bigcup \{\mathsf{RD}_{exit}(\ell') \mid (\ell',\ell) \in \mathit{flow}(S_\star)\} & \text{otherwise} \end{cases}$$

$$\mathsf{RD}_{exit}(\ell) = \bigcup \{ \mathsf{RD}_{exit}(\ell') \mid (\ell', \ell) \in \mathit{flow}(S_{\star}) \}$$

$$\mathsf{RD}_{exit}(\ell) = (\mathsf{RD}_{entry}(\ell) \backslash \mathit{kill}_{\mathsf{RD}}(B^{\ell})) \cup \mathit{gen}_{\mathsf{RD}}(B^{\ell})$$

$$\mathsf{where} \ B^{\ell} \in \mathit{blocks}(S_{\star})$$