

**procedure** *CheckEG*( $f_1$ )

$S' := \{ s \mid f_1 \in \text{label}(s) \};$

$MSCC := \{ C \mid C \text{ は } S' \text{ の自明でない極大な強連結成分} \};$

$T := \bigcup_{C \in MSCC} \{ s \mid s \in C \};$

**for all**  $s \in T$  **do**  $\text{label}(s) := \text{label}(s) \cup \{ \mathbf{EG}f_1 \};$

**while**  $T \neq \emptyset$  **do**

**choose**  $s \in T;$

$T := T \setminus \{s\};$

**for all**  $t$  **such that**  $t \in S'$  **and**  $R(t, s)$  **do**

**if**  $\mathbf{EG}f_1 \notin \text{label}(t)$  **then**

$\text{label}(t) := \text{label}(t) \cup \{ \mathbf{EG}f_1 \};$

$T := T \cup \{t\};$

**end if**

**end for all**

**end while**

**end procedure**