(guarded command) In “Dijkstra's little language” there is a conditional program with the syntax
\[
\text{if } b \rightarrow P \; [] \; c \rightarrow Q \; \text{fi}
\]
where \( b \) and \( c \) are binary and \( P \) and \( Q \) are programs. It can be executed as follows.
If exactly one of \( b \) and \( c \) is true initially, then the corresponding program is executed; if both \( b \) and \( c \) are true initially, then either one of \( P \) or \( Q \) (arbitrary choice) is executed; if neither \( b \) nor \( c \) is true initially, then execution is completely arbitrary.

(a) Express this program as a specification using the notations of this book.
\[
\text{§ } \quad b \lor c \Rightarrow b \land P \lor c \land Q
\]

(b) Refine this specification as a program using the notations of this book.
\[
\text{§ } \quad b \lor c \Rightarrow b \land P \lor c \land Q \iff \text{if } b \text{ then } P \text{ else } Q \text{ fi}
\]