start of if-statement

end of if-statement

$BooleanExpression_1$ — False — $BooleanExpression_2$ — False — $\cdots$ — False — $BooleanExpression_n$ — False — $Statement_1$ — $Statement_2$

True → $Statement_{1.1}$ → $Statement_{1.2}$

True → $Statement_{2.1}$ → $Statement_{2.2}$
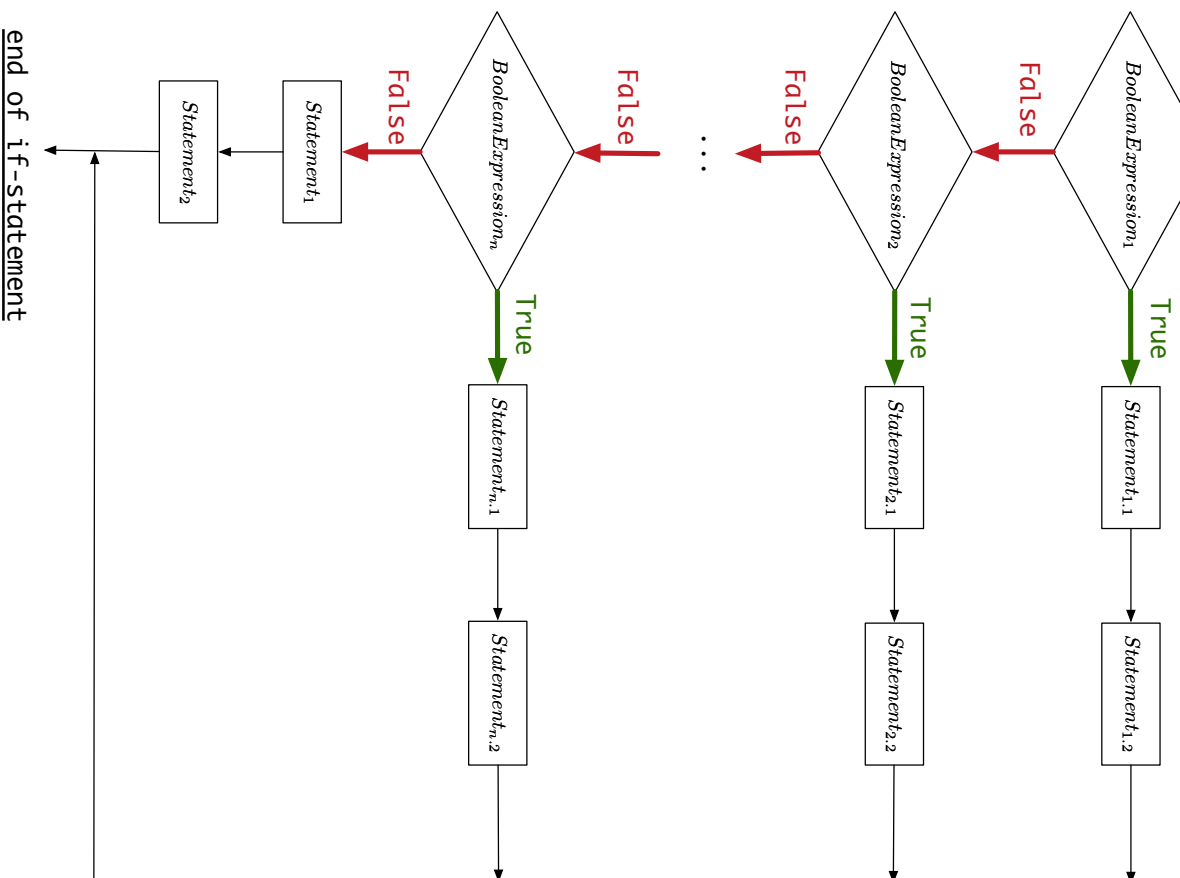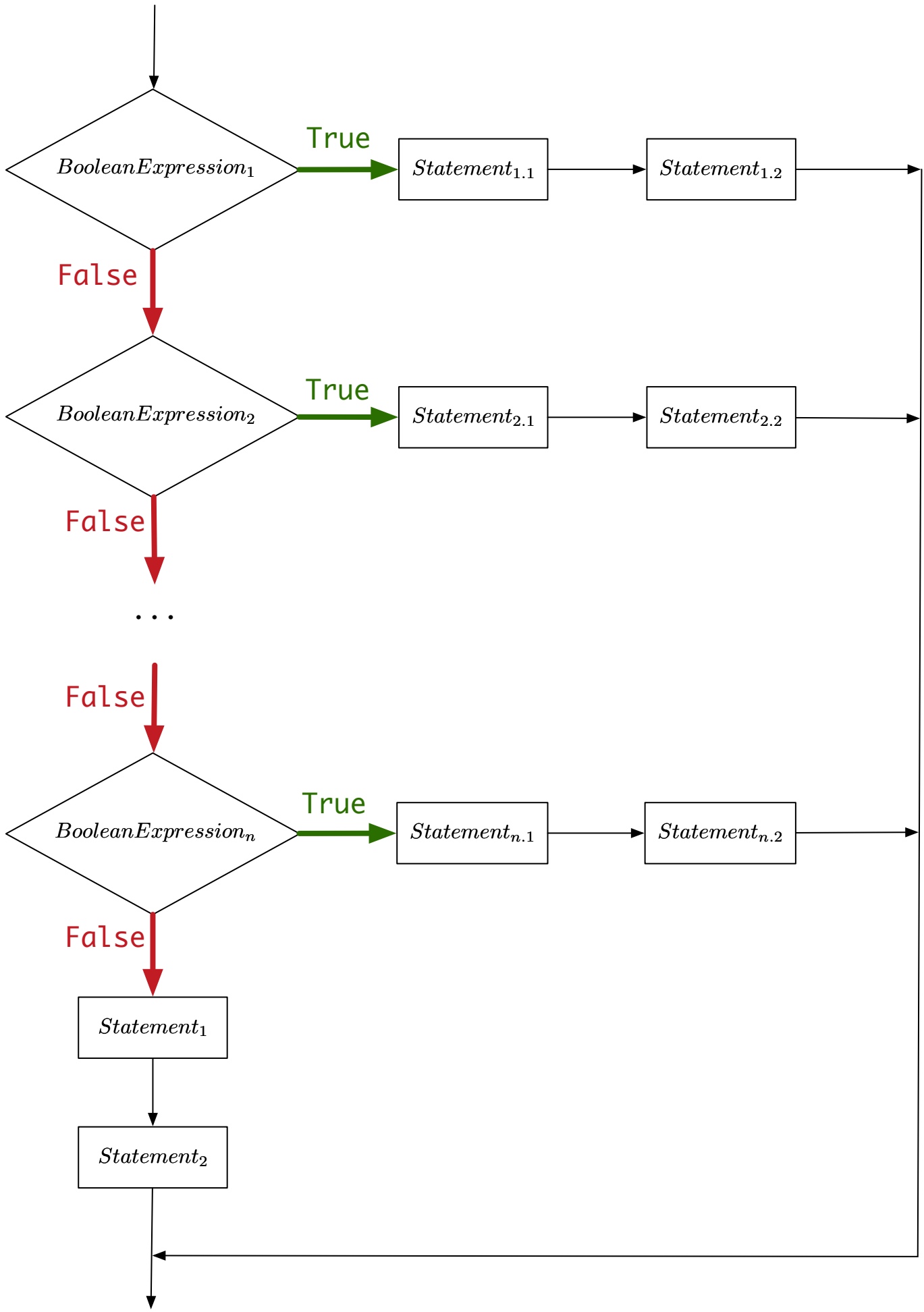
True → $Statement_{n.1}$ → $Statement_{n.2}$

```
if ( BooleanExpression₁ ) {          /* Mandatory */
    Statement₁.₁; Statement₁.₂;
}
else if ( BooleanExpression₂ ) {     /* Optional */
    Statement₂.₁; Statement₂.₂;
}
... /* as many else-if branches as you like */
else if ( BooleanExpressionₙ ) {     /* Optional */
    Statementₙ.₁; Statementₙ.₂;
}
else {                               /* Optional */
    /* when all previous branching conditions are false */
    Statement₁; Statement₂;
}
```

start of if-statement

$BooleanExpression_1$ — True → $Statement_{1.1}$ → $Statement_{1.2}$

False

$BooleanExpression_2$ — True → $Statement_{2.1}$ → $Statement_{2.2}$

False

. . .

False

$BooleanExpression_n$ — True → $Statement_{n.1}$ → $Statement_{n.2}$

False

$Statement_1$

$Statement_2$

end of if-statement