

Suppose  $E$ ,  $F$ , and  $G$  are events in a sample space  $S$ . If  $E - F$  and  $G - F$  both occur, but  $(E \cup F \cup G)^c$  does not occur, then which of the following events also must occur?

- (a)  $E(F \cup G)$
- (b)  $EF G$
- (c)  $FG$
- (d)  $FG^c$
- (e)  $F - E$
- (f)  $E^c FG$
- (g)  $E^c F^c G$
- (h)  $E^c G$
- (i)  $E^c \cup G^c$
- (j)  $S^c$
- (k) None of these