

Suppose an experiment has sample space  $S = \{a, b, c, d, e, f, g\}$  with equiprobable outcomes. Define the following three events:

$$\begin{aligned}R &= \{a, b, c, d\} \\ W &= \{b, d, e\} \\ T &= \{a, e\}.\end{aligned}$$

Which of the following events is independent of the event  $R^c W^c T^c$  ?

- (a) None of these
- (b)  $R$
- (c)  $W$
- (d)  $T$
- (e)  $R \cup W$
- (f)  $R \cup W \cup T$
- (g)  $W \cup T$
- (h)  $R \cup T$
- (i)  $RW^c$
- (j)  $TW^c$