1. 设集合 $A = \{x \mid x = 3k+1, k \in Z\}, B = \{x \mid x = 3k+2, k \in Z\}$, U 为整数集, $\complement_U (A \cup B) =$

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A. $\{x \mid x = 3k, k \in \mathbf{Z}\}$

B. $\{x \mid x = 3k-1, k \in Z\}$

C. $\{x \mid x = 3k-2, k \in Z\}$

D. $\varnothing$