Let $G = (V, E)$ be an undirected graph. Let $e = \{u, v\}$ be an edge in $G$. Give an $O(n + m)$ time algorithm that finds the shortest cycle in $G$ which contains the edge $e$. Explain why your algorithm is correct.

Do you understand each individual word?
Do you understand the problem as a whole?
What would the method signature be (return type, parameters)?