Bridges and cut vertices: Example

Active times in Red. Low in green

\[ \begin{array}{cccccccccc}
 & a & b & c & d & e & f & g & h & i & j & k \\
\hline
\Pi: & - & k & i & k & f & c & a & b & d & j & i \\
\end{array} \]

i is cut vertex because i has child f with f.low = 2 ≥ i.dis = 2

(K,e) is bridge because e.low = 14 ≥ e.dis = 14

K is cut vertex because K has child e with
(K is not root)

b is cut vertex because b has child j with
j.low = 9 ≥ b.dis = 9, b is not root

(h,b) is bridge because b.low = 9 ≥ b.dis = 9

h is cut vertex because h has child b with b.low = 9 ≥ h.dis = 8