Now, by the same logic, b & g get filled by a 0 and 1, respectively.

Now, $\det \underline{\underline{A}} = 0 + 0 \cdot 1 \cdot 1 + 0 - 0 - 0 - 1 \cdot e \cdot c$

Through one more iteration, $\det \underline{\underline{A}}$ becomes 0.

Now, if 1 chooses to play on any point other than h or f, 0 can still play on f or h. Then, 0 and 1 will each play on the remaining 2 factors of whichever term ~~f~~ plays on, resulting in $\det \underline{\underline{A}} = 0$.

0 always wins.