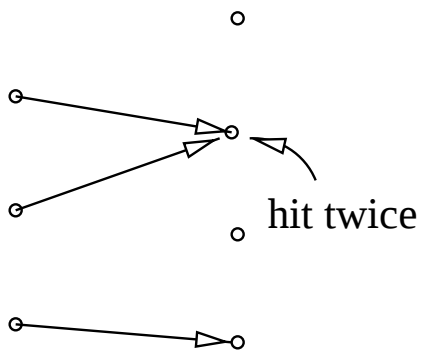


$$A \xrightarrow{f} B$$

an injection



$$A \xrightarrow{f} B$$

NOT
an injection