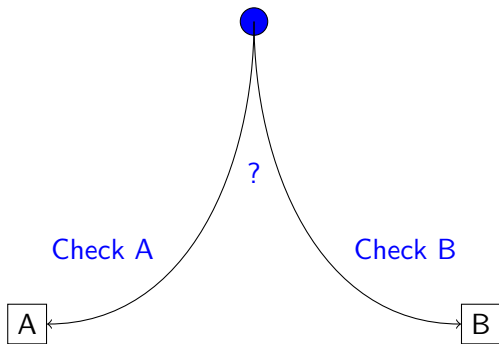


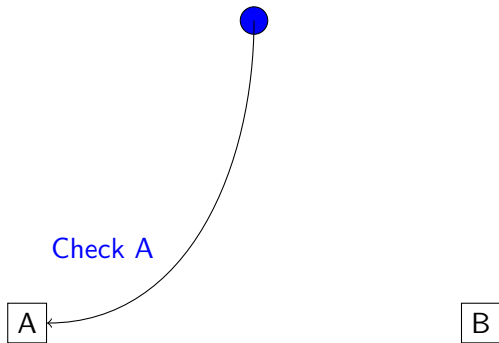
# Best Responses

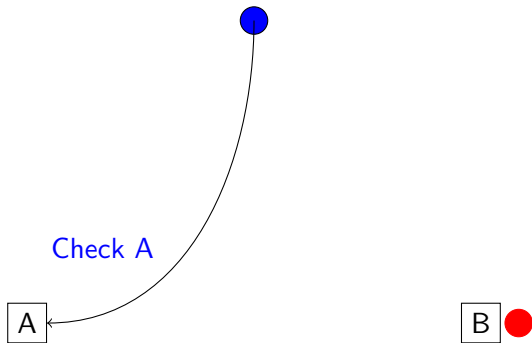
Game Theory

Vincent Knight









A



Check B

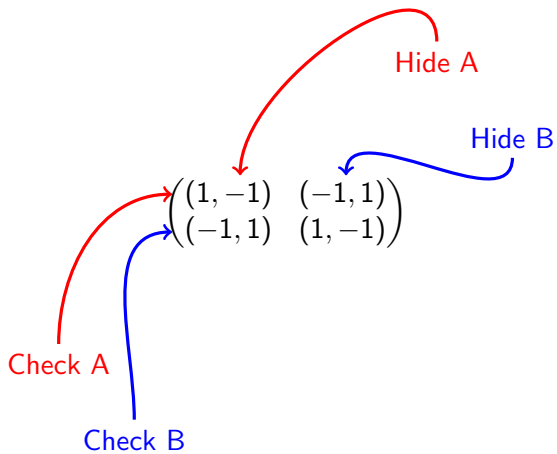
B





Check B







$$UD_i = \{s \in S_i \mid s \text{ is not strictly dominated}\}$$

$$B_i = \{s \in S_i \mid \exists \sigma \in \Delta S_{-i} \text{ such that } s \text{ is a best response to } \sigma\}$$

In our hide and seek game:

$$UD_i = \{A, B\} \forall i \in \{1, 2\}$$

and

$$B_i = \{A, B\} \forall i \in \{1, 2\}$$

$$UD_i = \{s \in S_i \mid s \text{ is not strictly dominated}\}$$

$$B_i = \{s \in S_i \mid \exists \sigma \in \Delta S_{-i} \text{ such that } s \text{ is a best response to } \sigma\}$$

In our hide and seek game:

$$UD_i = \{A, B\} \forall i \in \{1, 2\}$$

and

$$B_i = \{A, B\} \forall i \in \{1, 2\}$$

**Theorem:**

In a 2 player normal form game  $B_i = UD_i$  for all  $i \in \{1, 2\}$ .