

## Survival

Two people have been accused of being 'in league with the devil'

To test this they know they are going to be locked in separate sealed rooms where they cannot communicate with, or hear, each other.

Every minute for an hour they will each flip a coin and then make a prediction of the other person's coin flip.

If on any one of the 60 predictions they are both right then this is sufficient evidence that they are 'in league with the devil' and they will both be killed.

There is a strategy they can use which will guarantee their survival. What is it?

### The strategy

A always uses the outcome of his own coin flip as his prediction whilst B uses the opposite of his outcome for his prediction.

A throws	A calls	B throws	B calls	Correct prediction from....
Heads	Heads	Heads	Tails	A only
Heads	Heads	Tails	Heads	B only
Tails	Tails	Heads	Tails	B only
Tails	Tails	Tails	Heads	A only