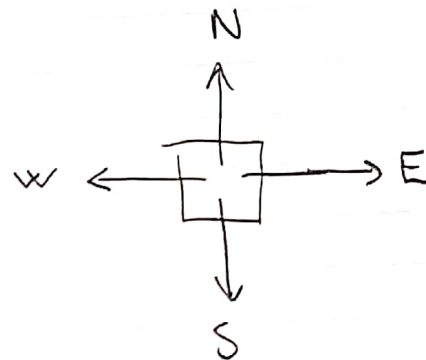
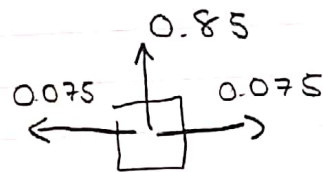
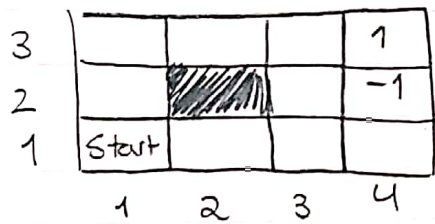
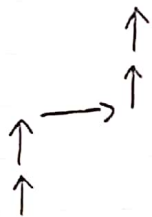


Grid world problem



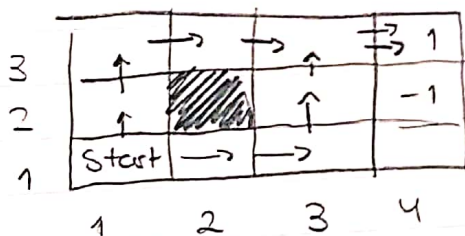
Sequence:

$N \rightarrow N \rightarrow E \rightarrow N \rightarrow N$



Want to know with what probability the robot will get to the tile with +1 rewards.

Can get there in 2 ways:



These give the probability:

$$\begin{aligned}
 & 0.85 \cdot 0.85 \cdot 0.85 \cdot 0.075 \cdot 0.075 \\
 & + 0.075 \cdot 0.075 \cdot 0.075 \cdot 0.85 \cdot 0.075 \\
 & \approx 0.003454 + 0.000027 \\
 & = 0.003481 = \underline{\underline{0.3481\%}}
 \end{aligned}$$

