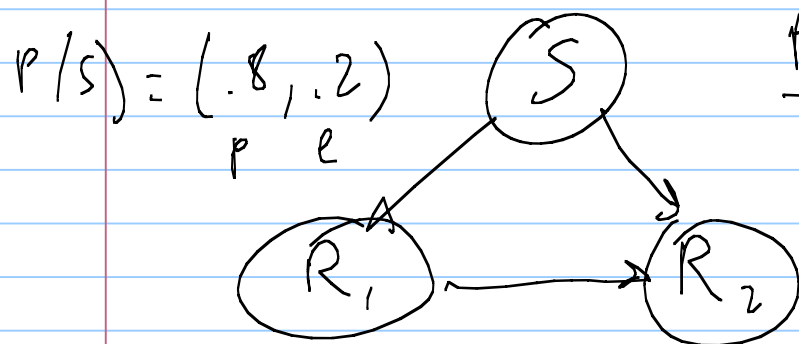


The BN for the chance variables,

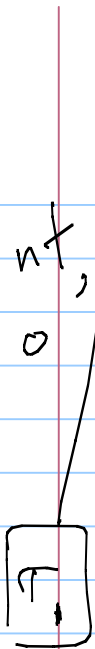
$S \in \{p, l\}$ (state of the car: peach or lemon)

$R_1 \in \{d_1, \sim d_1\}$ (Test 1 result: defect or no defect)

$R_2 \in \{d_2, \sim d_2\}$ (Test 2 result: 4 or not 4)



$P(R_1 S)$	$R_1=d_1$	$R_1=\sim d_1$	$P(R_2 S, R_1)$	$R_1=d_1$	$R_1=\sim d_1$
$S=p$	0.1	0.9	$S=p$	(0; 1)	(1/9; 8/9)
$S=l$	0.6	0.4	$S=l$	(5/9; 4/9)	(6/9; 3/9)
$(P(R_2=d_2 S, R_1); P(R_2=\sim d_2 S, R_1))$					



$$\begin{array}{r}
 1100 \\
 - 1000 \\
 \textcircled{*} - 60 \\
 - 40 \\
 \hline
 20
 \end{array}$$

$$\begin{array}{r}
 1100 \\
 - 1000 \\
 - 60 \\
 - 200 \\
 + 200 \\
 \hline
 40
 \end{array}$$

$$\begin{array}{r}
 48 \\
 - 20 \\
 \hline
 28
 \end{array}$$

