Quiz 8: Direct Q Evaluation A
Supposed to use Direct Evaluation.  $V^{n}(S_{t}) = E\left[\sum_{k=0}^{\infty} Y^{k} R_{t+k+1}\right]$   $Y = 1 = \sum_{k=0}^{\infty} Y^{n} LS_{t} = E\left[\sum_{k=0}^{\infty} R_{t+k+1}\right]$ 

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So I have to look through each of the episodes and find the average of the sum of rewards:

 $Q((a,a),E) = \frac{(0+0+100)+(0-30)+(0+0+60)+(0-10)+(0-30)}{5}$ 

= 18

Q((1,2),5) = 0 (Not in the episodes)

 $Q((1,2),E) = ((0+0+0+100)+(0+0-30)+(0+0+0+60) + (0+0-10)+(0+0-30))/5 = \frac{18}{18}$