1 point	t
	on the preceding result, what is the probability that Machine 1 is given you won playing on Machine 1?
	0.3
	0.4
	0.5
	0.6
	0.7
1 point	t
	on the preceding result, what is the probability that Machine 2 is given you won playing on Machine 1?
	0.3
	0.4
	0.5
	0.6
	0.7

1
point

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Under the Bayesian paradigm, which of the following correctly matches the probabilities with their names?

Posterior - $P(M_1 \text{ is Good } | \text{Win on } M_1)$

Prior - $P(M_1 \text{ is Good})$

Likelihood - $P(\text{Win on } M_1 \mid M_1 \text{ is Good})$

Posterior: $P(M_1 \text{ is Good } | \text{Win on } M_1)$

Prior: $P(\text{Win on } M_1 \mid M_1 \text{ is Good})$

Likelihood: $P(M_1 \text{ is Good})$

Posterior: $P(Win on M_1 | M_1 is Good)$

Prior: $P(M_1 \text{ is Good } | \text{Win on } M_1)$

Likelihood: $P(M_1 \text{ is Good})$

Posterior: $P(Win on M_1 | M_1 is Good)$

Prior: $P(M_1 \text{ is Good})$

Likelihood: $P(M_1 \text{ is Good } | \text{Win on } M_1)$

1 point

4.

Using the **bandit_posterior** function calculate the posterior probabilities of Machine 1 and 2 being "good" after playing Machine 1 twice and winning both times and then playing Machine 2 three times and winning twice and then losing.

 $P(M_1 \text{ is good } | \text{ data}) = 0.250, P(M_2 \text{ is good } | \text{ data}) = 0.750$

 $P(M_1 \text{ is good } | \text{ data}) = 0.429, P(M_2 \text{ is good } | \text{ data}) = 0.571$

	$P(M_1 \text{ is good } \text{ data}) = 0.571, P(M_2 \text{ is good } \text{ data}) = 0.429$
	$P(M_1 \text{ is good } \text{ data}) = 0.750, P(M_2 \text{ is good } \text{ data}) = 0.250$
Week 1 Lab Quiz, 6 questions	5. What would the posterior probabilities be if we had instead played Machine 2 first, playing three times, winning twice and losing once and then playing Machine 1 twice and winning both times? $P(M_1 \text{ is good} \mid \text{data}) = 0.250, P(M_2 \text{ is good} \mid \text{data}) = 0.750$ $P(M_1 \text{ is good} \mid \text{data}) = 0.429, P(M_2 \text{ is good} \mid \text{data}) = 0.571$
	$P(M_1 \text{ is good } \text{ data}) = 0.571, P(M_2 \text{ is good } \text{ data}) = 0.429$
	$P(M_1 \text{ is good } \text{ data}) = 0.750, P(M_2 \text{ is good } \text{ data}) = 0.250$
	1 point 6. Why do the posterior probabilities for Machine 1 and Machine 2 mirror each other?
	$P(M_1 \mid \text{data})$ and $P(M_2 \mid \text{data})$ are complementary
	Machine 1 and Machine 2 being "good" are mutually exclusive events
	All of the above
	Upgrade to submit