**Problem**

Suppose there are two urns, each containing balls of two different colors. Urn 1 contains 1 red ball and 9 blue balls, while Urn 2 contains 9 red balls and 1 blue balls. You randomly select one urn, and then randomly select a ball from that urn. If you know that the ball you selected is red, what is the probability (%) that it came from Urn 1?

**Solution**

You’ll need to use Baye’s Theorem when calculating the probability that the selected red ball came from Urn 1:

Now, let's re-calculate the probabilities:

Probability of selecting a red ball:

Probability that the selected red ball came from Urn 1:

The answer is **10**%.

**Answer: 10**