Let S be the number of times that the result was odd, which is a binomial random variable, with parameters n=100 and p=0.5, so that $\mathbf{E}[S]=100\cdot 0.5=50$ and $\sigma_S=\sqrt{100\cdot 0.5\cdot 0.5}=\sqrt{25}=5$. Using the normal approximation to the binomial, we find

$$\mathbf{P}(S > 55) = \mathbf{P}\left(\frac{S - 50}{5} > \frac{55 - 50}{5}\right) \approx 1 - \Phi(1) \approx 1 - 0.8413 = 0.1587.$$

A better approximation can be obtained by using the de Moivre-Laplace approximation, which yields

$$\mathbf{P}(S > 55) = \mathbf{P}(S \ge 55.5) = \mathbf{P}\left(\frac{S - 50}{5} \ge \frac{55.5 - 50}{5}\right)$$
$$\approx 1 - \Phi(1.1) \approx 1 - 0.8643 = 0.1357.$$