Prob(red) = \frac{r}{r+b}

If the current balls attract new ball, chance that it goes in one with more balls is greater.

Generate a random permutation of 1 \ldots n.

\begin{array}{c}
\text{blue} \quad \text{red}
\end{array}

\text{Prob(red)} = \frac{r}{r+b} \quad \text{where middle is both red and blue}

\rightarrow \text{prob of where 1 is anywhere}
\text{Prob that it's in top 10\% = 10\%}

R colors:
\begin{array}{c}
\text{Balls in bin i:}
\end{array}

\text{Prob (next ball goes to) = \frac{\#\text{ balls in bin } i}{\text{total } \#\text{ balls}}}