

$$p_{\text{hit}}(S, i) = \sum_{j \in S, j \leq i} \frac{1}{|S|}$$

$$p_{\text{miss}}(S, i) = \sum_{j \notin S, j \leq i} \frac{1}{|L| - |S|}$$

$$\text{es}(S, i) = p_{\text{hit}}(S, i) - p_{\text{miss}}(S, i)$$

$$\text{es}(S, L) = \max_{1 \leq i \leq |L|} \text{es}(S, i)$$