

$$\frac{\sum_{i=1}^m \text{Bit}(\text{output}_i, \text{guess}) \cdot \mathbf{M}_i}{\sum_{i=1}^m \text{Bit}(\text{output}_i, \text{guess})} \quad \frac{\sum_{i=1}^m (1 - \text{Bit}(\text{output}_i, \text{guess})) \cdot \mathbf{M}_i}{\sum_{i=1}^m (1 - \text{Bit}(\text{output}_i, \text{guess}))}$$