

To solve our approximate string matching problem,
we use a table, called $R^k[n, m]$.

$$R^k(i, j) \begin{cases} = 1 & \text{if there exists a suffix } A \text{ of } T_{1,i} \text{ such that } d(A, P_{1,j}) \leq k. \\ = 0 & \text{otherwise.} \end{cases}$$

where $1 \leq i \leq n$ and $1 \leq j \leq m$.