

Our approximate string matching problem is defined as follows:

We are given a text $T_{1,n}$, a pattern $P_{1,m}$ and an error bound k .

We want to find all locations T_i when $1 \leq i \leq n$ such that there exists a suffix A of $T_{1,i}$ and $d(A,P) \leq k$ where $d(x,y)$ is the edit distance (or **difference**) between x and y .