

## 2<sup>nd</sup> Algorithm

- Simple algorithm based on the following lemma:

Let  $T$  and  $P$  be two strings. Let  $P$  be divided into  $j$  pieces  $p_1, p_2, \dots, p_j$ . If  $\text{ed}(T, P) \leq k$ , then there exists at least one  $p_i$  and a substring  $S$  in  $T$  such that  $\text{ed}(S, p_i) \leq \lfloor k / j \rfloor$

-> What if we set  $j=k+1$  ?