We say that position i in k-mers p_1 ... p_k and q_1 ... q_k is a **mismatch** if $p_i \neq q_i$. example, CGAAT and CGGAC have two mismatches. Our observation that a *DnaA* box may appear with s variations leads to the following generalization of the Pattern Matching Problem:

Approximate Pattern Matching Problem: Find all approximate occurrences of a pattern in a string.

Input: Two strings *Pattern* and *Text* along with an integer *d*.

Output: All positions where *Pattern* appears in *Text* with at most *d* mismatches.

CODE CHALLENGE: Solve the Approximate Pattern Matching Problem

Sample Input:

ATTCTGGA

3

Sample Output:

6 7 26 27