

**Military Institute of Science and Technology**  
Department Of Computer Science and Engineering  
Course Code – CSE 444; Course Title: Pattern Recognition Sessional  
Practice Problem of Edit Distance Algorithm, CSE 15

Consider a case, where you are given a word as test string. Your task is to take **n** reference strings as user input from file and sort out the reference strings according to the required number of operations. Also plot the path of individual changes, insertion and deletion required to change the test string into the best matched references.

Sample Input	Sample Output	
	Edit Distance	Index of Reference Strings
principle	1	2
10	1	3
principal	2	1
principl	2	4
painciple	4	5
principa	4	6
zrindipal	4	7
pridciqal	4	8
ariscipql	5	9
praaincibal	5	10
pqrwingcipal		
prial		

**Step 1:**  
Implement the algorithm

**Step 2:**  
Print the Edit\_distance of the reference strings according to best to worst matches.

**Step 3:**  
Plot the path in a graph.