## **Minimum Edit distance**

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int min(int a, int b)
  return a < b? a: b;
int minimum(int a, int b, int c)
  return min(min(a, b), c);
int minEditDistance(char *str1, char *str2, int len1, int len2)
  int ED[len1+1][len2+1];
  for(int i = 0; i \le len 1; i++)
     for(int j = 0; j \le len 2; j++)
       if(i == 0)
          ED[i][j] = j;
       else if(j == 0)
          ED[i][i] = i;
       else if(str1[i-1] == str2[j-1])
          ED[i][j] = ED[i-1][j-1];
       else
          ED[i][j] = 1 + minimum(ED[i][j-1], ED[i-1][j], ED[i-1][j-1]);
     }
  return ED[len1][len2];
int main()
  char str1[] = "abcdef";
  char str2[] = "azced";
  printf("Mininum edit distance = %d",
     minEditDistance(str1, str2, strlen(str1), strlen(str2)));
  return 0;
Time complexity: O(m*n)
Space complexity: O(m*n)
```