

String A;

String B;

```
int MED(int i, int j)
    IF i == 0 AND j == 0 return 0;
    IF j == 0 return i;
    IF i == 0 return j;
    int extra;
    IF A[i] == B[j]
        extra = 0;
    ELSE extra = 1;
    return MIN(MED(i-1, j) + 1,
               MED(i, j-1) + 1,
               MED(i-1, j-1) + extra)
```

```
int MED(int a, int b)
    int cache[a+1][b+1];
    cache[0][0] = 0;
    FOR i=0 TO a
        cache[i][0] = i;
    FOR j=0 TO b
        cache[0][j] = b;
    FOR i=1 TO a
        FOR j=1 TO b
            int extra;
            IF A[i] == B[j]
                extra = 0;
            ELSE extra = 1;
            cache[i][j] = MIN(cache[i-1][j] + 1,
                              cache[i][j-1] + 1,
                              cache[i-1][j-1] + extra);
    return cache[a][b];
```