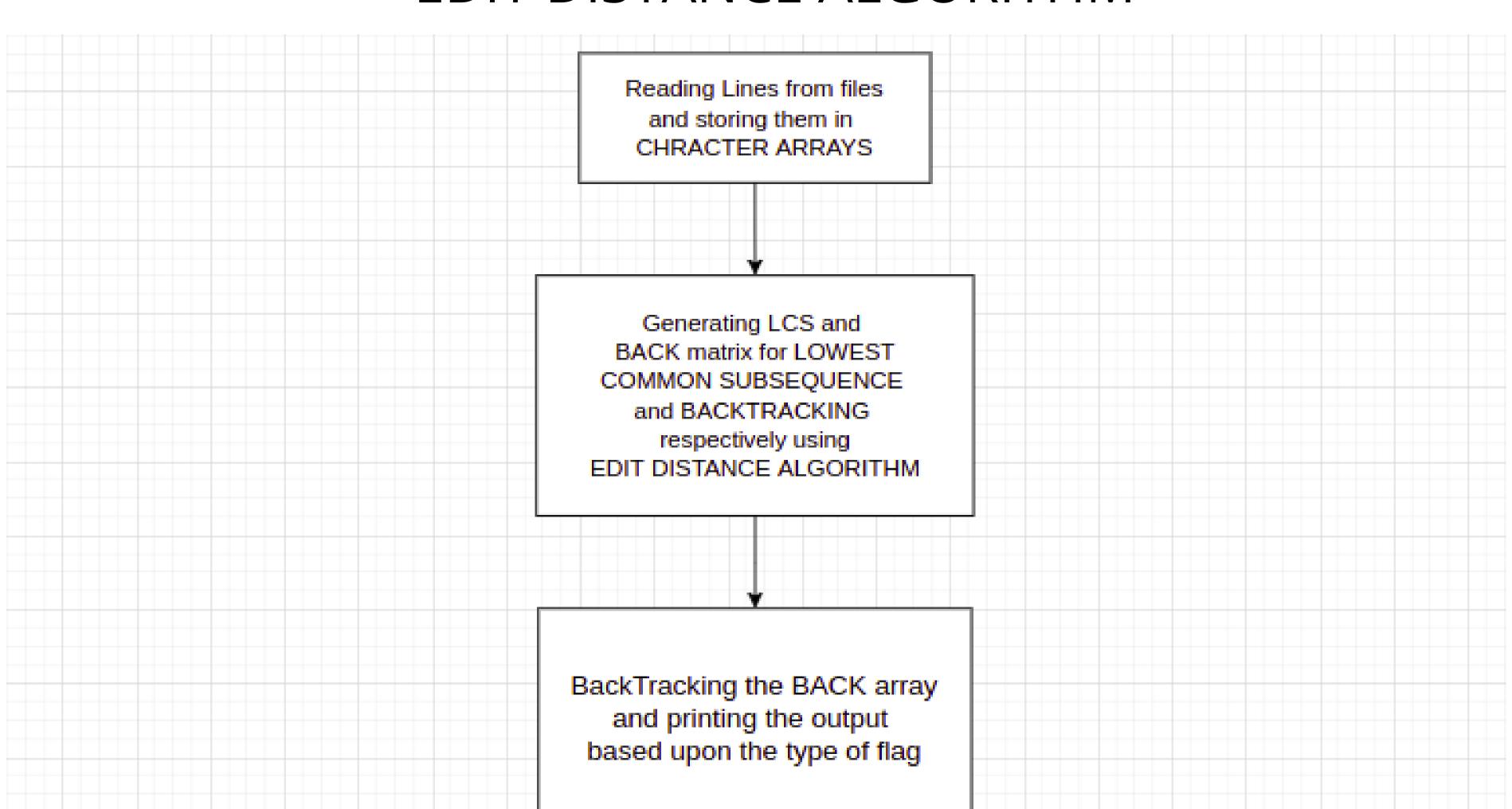
# DIFF COMMAND

## DIFFERENT FORMS OF DIFF COMMAND

- --normal
   output a normal diff (the default)
- -Q
   reports only when files differ
- -S
   reports when two files are the same

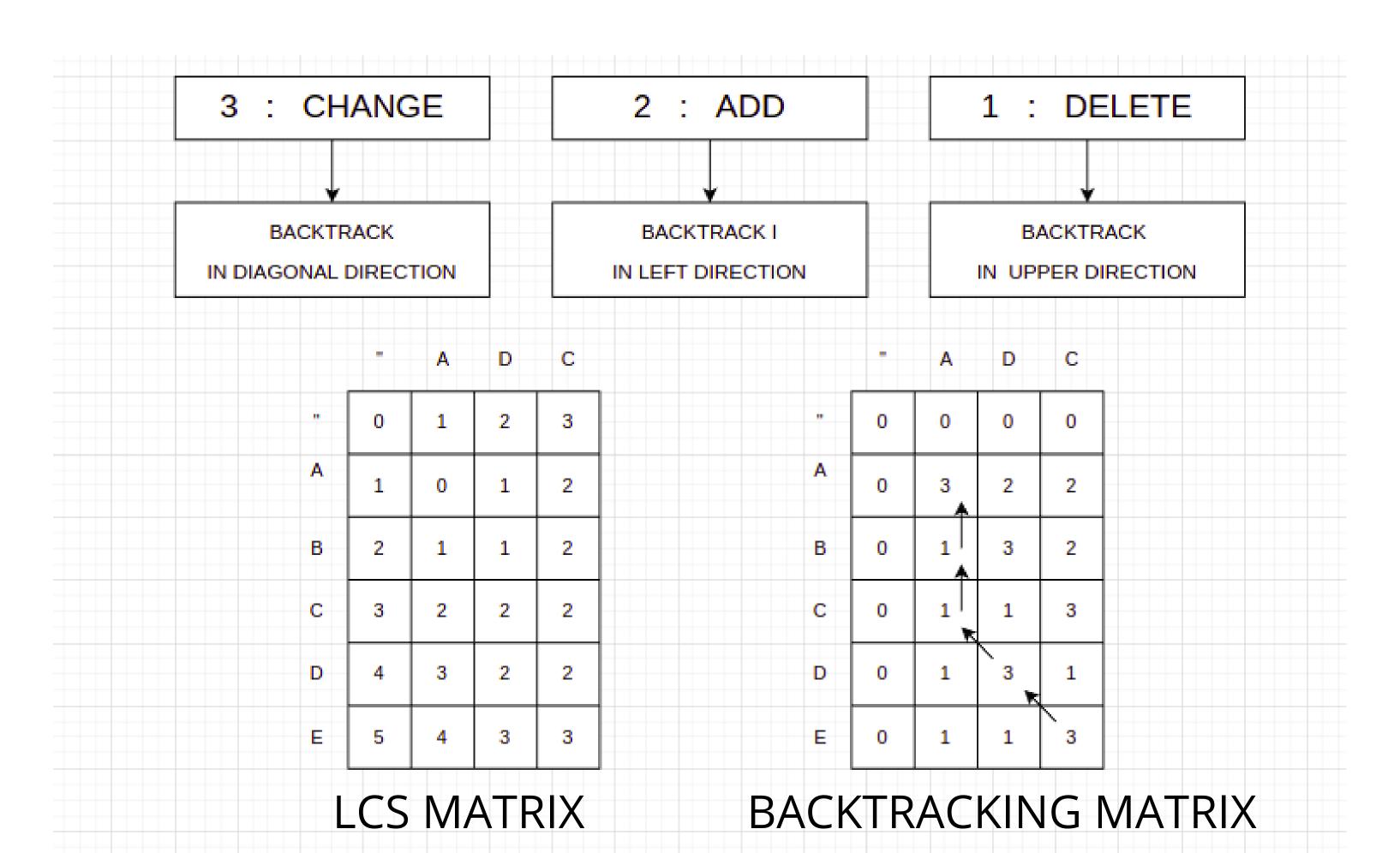
- -U
   output lines of unified context
- --COlorcolorize the output
- -Coutput lines of copied context

## EDIT DISTANCE ALGORITHM



### str1="ABCDE"

### str2="ADC"



#### OUTPUT:

```
tanmay@tanmay-lenovo: ~/Desktop/proje... Q
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ cat text1
Linux is a great operating system
It's free and opensource
It's light and stable
I would highly recommend it
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ cat text2
Linux is a great operating systeM
It's free and opensource
It's light and stable
Oh ! It can be installed on almost any PC hardware
I would highly recommend it
```

#### --normal

```
凪
         tanmay@tanmay-lenovo: ~/Desktop/projects/diff
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2
1c1
< Linux is a great operating system
> Linux is a great operating systeM
3a4
< Oh ! It can be installed on almost any PC hardware
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ diff text1 text2
1c1
< Linux is a great operating system
> Linux is a great operating systeM
3a4
> Oh ! It can be installed on almost any PC hardware
tanmay@tanmay-lenovo:~/Desktop/projects/diff$
```

```
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2 -s

1c1
< Linux is a great operating systeM
---
> Linux is a great operating system
3a4
< Oh ! It can be installed on almost any PC hardware
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text1 -s

Files text1 and text1 are identical
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ []
```

```
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2 -q Files text1 and text2 differ tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text1 -q tanmay@tanmay-lenovo:~/Desktop/projects/diff$ [
```

#### --color

```
且
            tanmay@tanmay-lenovo: ~/Desktop/projects/diff
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2 --color
> Linux is a great operating system
< Oh ! It can be installed on almost any PC hardware
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ diff text1 text2 --color
> Linux is a great operating system
3a4
> Oh ! It can be installed on almost any PC hardware,
tanmay@tanmay-lenovo:~/Desktop/projects/diff$
```

```
丑
                           tanmay@tanmay-lenovo: ~/Desktop/projects/diff
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2 -u
               2022-06-12 16:27:1655031424 +0530
--- text1
+++ text2
               2022-06-12 16:26:1655031382 +0530
@@ -1,4 +1,5 @@

    Linux is a great operating systeM

+Linux is a great operating system
It's free and opensource
It's light and stable
+Oh ! It can be installed on almost any PC hardware
I would highly recommend it
\ No newline at end of file
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ diff text1 text2 -u
--- text1
               2022-06-12 16:27:04.719184691 +0530
+++ text2
                2022-06-12 16:26:22.208143649 +0530
@@ -1,4 +1,5 @@

    -Linux is a great operating systeM

+Linux is a great operating system
It's free and opensource
It's light and stable
+Oh ! It can be installed on almost any PC hardware
I would highly recommend it
tanmay@tanmay-lenovo:~/Desktop/projects/diff$
```

```
tanmay@tanmay-lenovo: ~/Desktop/projects/diff
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ ./diff text1 text2 -c
*** text1
              2022-06-12 16:27:1655031424 +0530
--- text2
              2022-06-12 16:26:1655031382 +0530
*****
*** 1.4 ****
! Linux is a great operating systeM
 It's free and opensource
 It's light and stable
 I would highly recommend it
 No newline at end of file
--- 1,5 ----
! Linux is a great operating system
 It's free and opensource
 It's light and stable
+ Oh ! It can be installed on almost any PC hardware
 I would highly recommend it
No newline at end of file
tanmay@tanmay-lenovo:~/Desktop/projects/diff$ diff text1 text2 -c
*** text1 2022-06-12 16:27:04.719184691 +0530
--- text2
            2022-06-12 16:26:22.208143649 +0530
******
*** 1.4 ****
! Linux is a great operating systeM
 It's free and opensource
 It's light and stable
 I would highly recommend it
--- 1,5 ----
! Linux is a great operating system
 It's free and opensource
 It's light and stable
+ Oh ! It can be installed on almost any PC hardware
 I would highly recommend it
tanmay@tanmay-lenovo:~/Desktop/projects/diff$
```