```
 1 C:\Users\Akshay\AppData\Local\
   Programs\Python\Python39\python.exe
   C:/Users/Akshay/Documents/java/
   pythonProject4/main.py
 2 Sequence 1 is:   ['G', 'C', 'C', 'T
   ', 'C', 'G', 'T']
 3 Sequence 2 is:   ['C', 'C', 'T', 'A
   ', 'A', 'G', 'T']
 4 Scoring matrix is:
 5 [[0], [-2, ['besides']], [-4, ['
   besides']], [-6, ['besides']], [-8
   , ['besides']], [-10, ['besides
   ']], [-12, ['besides']], [-14, ['
   besides']]]
 6
 7
 8 [[-2, ['up']], [-1, ['diagonal
   ']], [-3, ['besides', 'diagonal
   ']], [-5, ['besides', 'diagonal
   ']], [-7, ['besides', 'diagonal
   ']], [-9, ['besides', 'diagonal
   ']], [-9, ['diagonal']], [-11, ['
   besides']]]
 9
10
11 [[-4, ['up']], [-1, ['diagonal']], [
   0, ['diagonal']], [-2, ['besides
   ']], [-4, ['besides']], [-6, ['
   besides']], [-8, ['besides']], [-10
   , ['besides', 'diagonal']]]
```

```
12

13

14 [[-6, ['up']], [-3, ['up', 'diagonal
   ']], [0, ['diagonal']], [-1, ['
   diagonal']], [-3, ['besides', '
   diagonal']], [-5, ['besides', '
   diagonal']], [-7, ['besides', '
   diagonal']], [-9, ['besides', '
   diagonal']]]

15

16

17 [[-8, ['up']], [-5, ['up']], [-2, ['
   up']], [1, ['diagonal']], [-1, ['
   besides']], [-3, ['besides']], [-5
   , ['besides']], [-6, ['diagonal']]]

18

19

20 [[-10, ['up']], [-7, ['up', '
   diagonal']], [-4, ['up', 'diagonal
   ']], [-1, ['up']], [0, ['diagonal
   ']], [-2, ['besides', 'diagonal
   ']], [-4, ['besides', 'diagonal
   ']], [-6, ['besides', 'diagonal']]]

21

22

23 [[-12, ['up']], [-9, ['up']], [-6
   , ['up']], [-3, ['up']], [-2, ['up
   ', 'diagonal']], [-1, ['diagonal
   ']], [-1, ['diagonal']], [-3, ['
   besides']]]
```

```
24
25
26 [[-14, ['up']], [-11, ['up']], [-8
   , ['up']], [-5, ['up', 'diagonal
   ']], [-4, ['up', 'diagonal']], [-3
   , ['up', 'diagonal']], [-2, ['
   diagonal']], [0, ['diagonal']]]
27
28
29
30 Process finished with exit code 0
31
```