

The screenshot shows a PyCharm IDE with a Python script named 'Quiz 2 (February 4, 2021).py'. The script defines three tables and a function to transform them. The output of the script is displayed in the Run console.

```
#This function outputs the index of value in the original table(both rows and columns start from 0)
#if it needs to output the index of value in math definition(both rows and columns start from 1), just add 1 to both row,column

def transform(table):
    for i in range(len(table)):
        for j in range(len(table[i])):
            if table[i][j] == value:
                return (i, j)
    return None

if __name__ == '__main__':
    table1 = [[1, 2, 3],
              [4, 5, 6],
              [7, 8, 9]]
    table2 = [[2, 4, 9, 14, 14, 15, 18],
              [21, 27, 31, 35, 42, 45, 50],
              [54, 59, 64, 69, 82, 84, 84]]
    table3 = [[3, 15, 21, 24, 83, 87, 88, 93],
              [178, 319, 541, 669, 770, 793, 848, 978],
              [1439, 1546, 1853, 2124, 2234, 2459, 2518, 2978],
              [3111, 3486, 3498, 3669, 3796, 3936, 4112, 4776],
              [5277, 5667, 6067, 6555, 7890, 8056, 8234, 9968]]

    s1 = transform(table1)
    s2 = transform(table2)
    s3 = transform(table3)
    output(location(0, len(s1)-1, 0, s1), table1)
    output(location(0, len(s2) - 1, 45, s2), table2)
    output(location(0, len(s3) - 1, 45, s3), table3)
    output() # index == 0
```

Run: E:\Anaconda3\python.exe "D:\Code\Algorithme\Quiz 2 (February 4, 2021).py"

```
[ 2 , 1 ]
[ 1 , 5 ]
Not found!
Process finished with exit code 0
```

#The output function prints the index of value in the original table (both rows and columns start from 0)

#if it needs to output the index of value in math definition (both rows and columns start from 1), just add 1 to both row, column