

5) (a) Input

3

1 2

2 2

8 7

2

3 3

4 4

When key does not exist in data 1, the key-value pair is not added to it.

(b) If k in data 1:

$V_1 = \text{data1}[k]$

if $V_1 \neq V_2$:

$\text{deepkeys}[k] = [V_1, V_2]$

$\text{del data1}[k]$

else:

$\text{data1}[k] = V_2$

(c)

Test Case 1

4

1 2

3 3

3 8

4 9

2

3 3

4 4

Test Case 2:

4

1 2

2 2

3 3

4 19

2

3 3

4 19

Test Case 3:

The test case written in 5a, which breaks the initially written code can be written.