

Q3: STRING FIND VALUE FOR COMBINED KEYS

For {"a":{"b":{"c":{"d":"e"}}}} for a

key of a/b/c/d/ Val = e

Key b/c/d/ Val = e

Solution:

We can consider this structure as tree

A → b → c → d → e

Wherefor a key we can get the last node/nodes as val

We use DFS

As we have DFS key = A-B then DFS will spill values from B to end node that is E

So we get C D E as the value for key .

Implementation:

This is implemented in with string modification and keeping the string in a map of the key

.Just replace

st = r'{"a":{"b":{"c":{"d":"e"}}}}' and call getkeyval(st,'a/b/') we can cde

```
String {"a":{"b":{"c":{"d":"e"}}}} key as is a invalid key
sanch@sanch-HP-Laptop-14-ck2xxx:~/HackerRanksTypesolutions/KPMG-Malta$ python3 Get_key_val.py
String {"a":{"b":{"c":{"d":"e"}}}} key a is a invalid key
String {"a":{"b":{"c":{"d":"e"}}}} key a/b/c/ val d
String {"a":{"b":{"c":{"d":"e"}}}} key as is a invalid key
String {"a":{"b":{"c":{"d":"e"}}}} key a is a invalid key
String {"a":{"b":{"c":{"d":"e"}}}} key a/b/ val cde
String {"a":{"b":{"c":{"d":"e"}}}} key a/b/c/d/ val e
String {"a":{"b":{"c":{"d":"e"}}}} key as is a invalid key
```