Shwetha.M

ENG19CS0307

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| 5(a) |
|  |  |
|  | if k in data1: |
|  | v1 = data1[k] |
|  | if v1 != v2: |
|  | dupKeys[k] = [v1, v2] |
|  | del data1[k] |
|  | else: |
|  | data1[k] = v2 |
|  | return dupKeys |
|  |  |
|  | 5(b) |
|  | def uniqueUpdate(data1, data2): |
|  | # Initially empty dictionary |
|  | dupKeys = {} |
|  | # Examine every (k, v2) pair in data2 |
|  | for [k, v2] in data2: |
|  | # Check if there is a key-value pair with key = k in data1 |
|  | if k in data1: |
|  | v1 = data1[k] |
|  | # (k, v1) in dict1 Check if v1 != v2 |
|  | if v1 != v2: |
|  | # Add (k, [v1, v2]) to dictionary |
|  | dupKeys[k] = [v1, v2] |
|  | # Remove (k, v1) from data1 |
|  | del data1[k] |
|  | else: |
|  | # Add (k, v2) to data1 |
|  | data1[k] = v2 |
|  | # After processing all (k, v2) in data2, return the dictionary |
|  | return dupKeys |
|  |  |
|  |  |
|  | ## DO NOT MODIFY BELOW THIS LINE! ## |
|  |  |
|  |  |
|  | import sys |
|  | if \_name\_ == '\_main\_': |
|  | data1 = {} |
|  | n1 = int(input()) |
|  | for \_ in range(n1): |
|  | k, v = map(int, input().split()) |
|  | if k in data1: |
|  | sys.exit("Illegal: data1") |
|  | data1[k] = v |
|  | data2 = [] |
|  | n2 = int(input()) |
|  | for \_ in range(n2): |
|  | k, v = map(int, input().split()) |
|  | for [k2, v2] in data2: |
|  | if k2 == k: |
|  | sys.exit("Illegal: data2") |
|  | data2.append([k, v]) |
|  | dup = uniqueUpdate(data1, data2) |
|  | print(data1) |
|  | print(data2) |
|  | print(dup) |
|  |  |
|  | 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 5(a),which breaks the initially written code can be written. |