EN419CSW80

5a

a) Input

```
3
1 2
2 2
8 7
2
3 3
4 4
```

when key does not exist in data1, the key value is not added to it.

b) if k in data1:

    v1 = data1[k]
    if v1 != v2:
        ~~dupkey~~
        dupkey[k] = [v1, v2]
        del data[k]
    else:
        data[k] = v2

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Sth

```
def unique update (data1, data 2);
  # initially empty dictionary
    duplkeys = {}
  # examine every (K.V2) pair
    in data2
    for [K.V2] in data 2;
      # check if there is a
      key-value
      # pair with key = K in data1
      if Ic in data 1;
         V1 = data 1 [K]
         # (K.V1) in dict 1
        # check if V1 != V2
        if V1!= V2:
        Add [K, (V1, V2)]
        # to dictionary
        dupkeys(k) = [V1, V2]
        # Remove( K.V1)
  drom data 1
        del data1 [K]
    else:
        # Add (K.V2) to data1
        data 1[K] = V2
        # After processing all (K, V2) in
        # data 2, return the dictionary
        return dup keys-
```