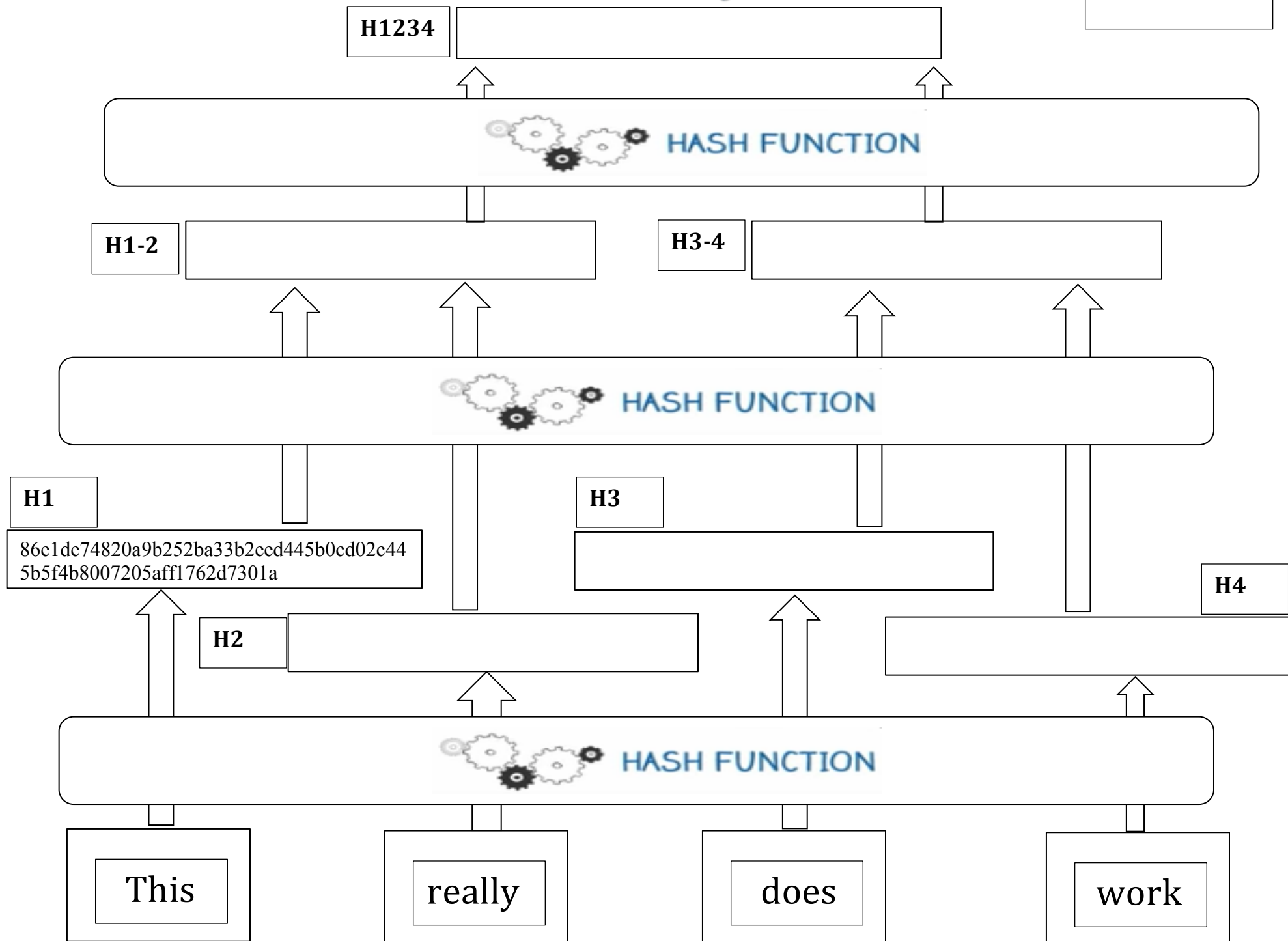


Merkle or Binary Hash Tree

Partner A



Directions

Individual

1. Go to the Sha256 website below and create a hash (digest) for each word, exactly as it is shown on the handout.
<https://emn178.github.io/online-tools/sha256.html>

The first one has already been done for you. “This” generated the code shown in Hash1 (H1)

2. Use the hash value in H1 and the hash value in H2 as the input to create a new hash and record it in H1-2
Note: it is important that you place them with H1 first followed directly by H2. Make sure there is no space between the two hashes when you enter them.
3. Use the hash value in H3 and the hash value in H4 as the input to create a new hash and record it in H3-4.
Note: it is important that you place them with H3 first followed directly by H4. Make sure there is no space between the two hashes when you enter them.
4. Use the hash value in H1-2 and the hash value in H3-4 as the input to create a new hash and record it in H1234
Note: Again, make sure there is no space between the two hashes when you enter them.

Pairs

1. Working with your partner, compare the values you recorded
2. Do you notice any differences in the input words between the two papers?
3. Do you notice any differences with each others Hash values? Where do they differ? Where are they the same?

Merkle or Binary Hash Tree

Partner B

