

## CSE 160 Section 9 Solutions

1.

This code will cause an error. This function iterates through its string parameter with a for-loop. As it is written, the iterating variable will take on values character by character instead of word by word. So, when the word "dime" is searched for as a key in the dictionary, it doesn't appear in the dictionary. One way to iterate through the first string word by word would be to change the code to: `for w in words.split():`

2.

The MSE difference between f and g is  $((4-1)^2 + (5-3)^2 + (6-9)^2) / 3 = 7.333$ .

The MSE difference between f and h is  $((4-8)^2 + (5-6)^2 + (6-4)^2) / 3 = 9$ .

The MSE difference between g and h is  $((1-8)^2 + (3-6)^2 + (9-4)^2) / 3 = 27.667$ .