**Below on the next page are three different words. As a human, you clearly know that the words “professor” and “teacher” are more closely related to each other than “doctor”. However, an AI doesn’t know that intuitively. Below these three different words you also have numbers corresponding to each feature pertaining to the given word. A number between 0 and 1 indicates the extent towards which a feature is present. The closer the number is to 1, the feature is present to a greater extent. Given the words and features corresponding to them, how would you go about creating an AI that can tell that the words “professor” and “teacher” are more closely related than the word “doctor”? Demonstrate your work by listing steps, providing an explanation, writing pseudocode, or some other way that suits you best.**

**Professor **

**Teacher**

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**Doctor****