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# In-Class Problems

1. For the syllabification rulebook below:
   a) What is the Euclidean distance between the sample [9 8 9] and the two closest patterns below.
   b) Based on a) how would [9 8 9] be divided into syllables?

| Pattern | Syllabifying Instruction |
|---|---|
| [10 10] | [10] [10] |
| [10 2 10] | [10 2] [10] |
| [10 7 10] | [10] [7 10] |
| [10 9 7 5 3 5 8 10] | [10 9 7 5 3] [5 8 10] |

1. For the syllabification rulebook below:

a) What is the Euclidean distance between the sample [9 8 9] and the two closest patterns below.

$$d1 = \sqrt[2]{(10-9)^2 + (2-8)^2 + (10-9)^2} = 6.16$$

$$d2 = \sqrt[2]{(10-9)^2 + (7-8)^2 + (10-9)^2} = 1.73$$

b) Based on a) how would [9 8 9] be divided into syllables?

[9][8 9]