

1. How much memory is needed to store 2.5 seconds of speech signal?
 - a. With telephone quality?
 - b. With microphone quality?
 - c. With CD quality?
2. We observed that in speech production two physiological aspects are involved: vocal folds/cords vibration and changes in the vocal tract shape.
 - a. Which one of these physiological aspects determines whether a segment of speech signal is voiced or unvoiced? Justify your answer.
 - b. A pronunciation of the word Patata is /p/ /ah/ /th/ /aa/ /th/ /aa/. Which phones in this sequence are voiced and which are unvoiced?
 - c. Given a segment of speech signal, how can we determine whether that speech segment is voiced or unvoiced?