

## CS173 Introduction to Computer Science

### String Iteration Workshop – Worksheet

1. Sketch the sequence and subsequence String variables below, using any of the test cases in the problem. Label the index of each character, and note the length of your String.
2. Where should you start and stop your loop? Be careful here! When you take your substring, you can't go past the end of the String, so make sure to stop a little earlier than the whole length of the String! The length of the subsequence will play a role.
3. If the current substring is not equal to the base, what should you append to the result?
4. If the current substring *is* equal to the base, what should you append to the result instead?
  - a. How should *i* advance?
5. What should you do if the end of the sequence is equal to the subsequence? Make sure you have either handled this case in your primary loop, or that you have a special case if statement at the end to check for this if you did not.