Videos for the assignment 6

1. Given a string S, find the longest palindromic substring in S.
   * <https://youtu.be/ZulrrlKTbiY>
2. Given a string, recursively remove adjacent duplicate characters from string. The output string should not have any adjacent duplicates.
   * <https://youtu.be/r1c56nhbcKM>
3. Given two strings, the task is to find if a string ('a') can be obtained by rotating another string ('b') by two places
   * <https://youtu.be/g32Hr7zoXm0>
4. Given a string in roman no format (s) your task is to convert it to integer.
   * <https://youtu.be/YOlFsmkeyVw>
5. Given two strings ‘X’ and ‘Y’, find the length of the longest common substring.
   * https://youtu.be/B5oebX3qgQo
6. Given a string, find length of the longest substring with all distinct characters.  For example, for input "abca", the output is 3 as "abc" is the longest substring with all distinct characters.
   * https://youtu.be/vuOODuL4h1I
7. Your task is to implement the function **atoi**. The function takes a string(str) as argument and converts it to an integer and returns it.
   * <https://youtu.be/juB6NOH9GtY>
8. Your task is to implement the function **strstr**. The function takes two strings as arguments(s,x) and  locates the occurrence of the string x in the string s. The function returns an integer denoting the first occurrence of the string x.
   * <https://youtu.be/Zerr-38HfF8>
9. Given an array of N **S**trings, find the longest common prefix among all strings present in the array.
   * <https://youtu.be/PyNVlhBqalM>
10. Design a URL shortener like bit.ly
    * <https://youtu.be/Xi-G5GMOTiQ>