1. There are 'n' concentric rectangles one inside another. The length and breadth of the surrounding rectangle is one unit more than the inner one. For example, if the length and breadth of the innermost rectangle is 5 cm and 4 cm, the immediate outer one will be having dimensions 6 cm and 5 cm. Write a C program with a recursive function that finally returns the area of the outermost rectangle. Get the number of rectangles 'n' and dimensions (length and breadth) of innermost rectangle as user input.

2. Write a c program using function pointers to insert a number 'n' at position 'p' of an array arr[] = {10,20,30,40}
   Ex:
   input: 1 2 3 4 5 6
    p=2
   Output: 1 2 100 3 4 5 6 (if n=100)

3. Write a c program using function pointers to check if the given string is palindrome or not.

   Example:
   Input: Eve
   Output: Palindrome