Assignment - 1

1. Reverse a string using a recursive method

Input	Output
Hello	olleH
Data	ataD

2. Write a recursion program which will find the sum until the Nth term of the given series
   1*2 + 4*4 + 7*8 + ...

Input	Output
2	18
1	2

3. You are given a number N. Your task is to determine if the binary representation of N is a palindrome.

   Input Format:
   The input contains a single integer N.

   Output Format:
   Print "YES" if the binary representation of N is a palindrome, otherwise print "NO".

Input	Output
9	YES
4	NO

4. You are given a string s. Your task is to find all permutations of the string s and print each permutation on a new line.

Input Format:
The input contains a single string s.

Output Format:
Print each permutation of the string s on a new line.

Input	Output
DSA	DSA DAS SDA SAD ADS ASD