import java.util.Stack;

public class StringReverse {

public static String reverse(String str) {

Stack<Character> stack = new Stack<>();

char[] chars = str.toCharArray();

for(char c : chars) {

stack.push(c);

}

for(int i = 0; i < str.length(); i++) {

chars[i] = stack.pop();

}

return new String(chars);

}

public static void main(String[] args) {

String str = "ABCD";

System.out.println("Before reverse - " + str);

System.out.println("After reverse - " + reverse(str));

}

}