1. Write a static method `public static String firstHalf(String s)` that returns the first half of the original string `s`. Thus if `s` were originally “asw3ed4r”, the method would return “asw3”. Assume the string has an even number of characters.

2. Write a method `public static String shorterString(String s1, String s2)` that returns the shorter of the strings `s1` and `s2`. Thus if `s1` is “abc” and `s2` is “derfght”, the method would return “abc”. If both strings are the same length, the method should return `s1`. Method `Math.min` will take care of the situation when both strings are the same length; however, you may use another approach that doesn’t use `Math.min`. 
3. Write a method with the heading `public static char generate(String s)` that generates a random integer between zero and the length of the string minus one, and returns the character in the string whose position corresponding to that integer. Thus if `s = “abdgsfrs”`, and the method generates the number 3, the method would return `g`. 