(a)

public int scoreGuess(String guess)

{

//Initialize the counter variable

int count = 0;

// Execute the for loop

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

{

int j = i + guess.length();

// substring

if(j <= secret.length() && secret.substring(i,j).equals(guess))

//if equals to the guess, the count increases by 1

count++;

}

//returning the final answer

return count \* (guess.length() \* guess.length());

}

(b)

public String findBetterGuess(String guess1, String guess2)

{

//variables

int score1 = scoreGuess(guess1);

int score2 = scoreGuess(guess2);

//comparing the scores

if(score1 > score2)

return guess1;

else if(score2 > score1)

return guess2;

else

{

if(guess1.compareTo(guess2) > 0)

return guess1;

else

return guess2;

}

}