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3. The WordManip class below removes a letter from a word and composes new word based on the remaining letters. You may assume the word and letter are all capital letter.

Below are examples,

Word	letter	Result
ELEPHANT	E	LPHANT
ABRACADABRA	A	BRCDBR
HORSE	D	HORSE

Write your algorithm below. Your solution must use a for loop.

```
public class WordManip{

    public static void main(String args[]){
        String word = /* some word */
        String letter = /* some letter */

    }
}
```

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4. The prime number counter below counts the number of two-digit prime numbers in a list of numbers.

Below are examples,

Number	Number of primes	Prime numbers
131744	2	17 13
201822	0	
99434137	3	37 41 43

Complete the prime number counter below. You may assume that each number to be checked contains an even number of digits. The prime number counter must count the number of two-digit prime numbers in a number with an even number of digits and store the result in count. You must use a for loop. String operations are not allowed.

```
public class PrimeCounter {
    public static void main(String args[]){

        int num = /* a number with an even number of digits */
        int count = 0;//count of the number of prime numbers

    }
}
```

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5. The wordle game below evaluates whether a user guesses a secret word based on the following criteria.

- If the letter in the guess is in the same position as the letter in the secret word, the letter is displayed in the correct position
- If the letter in the guess is in the secret word but in a different position, an asterisk is displayed in that position
- If the letter in the guess is not in the secret word, an underscore is displayed

Below are examples,

Secret	Guess	Result
EARTH	HEART	*****
EARTH	BARKS	_AR__
EARTH	AMPLE	*__*

Complete the Wordle class below to meet the specifications above. The result of guess must be stored in the variable result.

```
public class Wordle {
    public static void main(String args[]){

        String secret = /* some five letter word */;
        String result = "";
        Scanner s = new Scanner(System.in);
        System.out.println("Guess my word ");
        String guess = s.next();

    }
}
```

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6. The CountSub class below counts the number of times a substring occurs in another string.

Below are examples. Note that the found substring in each string is bolded.

str	substr	count
AB ABAB	ABA	1
BB AB ABABA	ABA	2
AB ABABABABA	AB	5
BBAABBAABBA	ABA	0

Complete the CountSub class below to meet the specifications above. Be mindful of boundaries and how you increment through the for loop depending on whether the substring is found or not.

```
public class CountSub {
    public static void main(String args[]){

        String str = /* some string */;
        String substr = /* some substring */
        int count = 0;

    }
}
```

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