1. What is the language of **secretmessage3.txt**?

1 point

- ○ Danish
- ○ Dutch
- ○ English
- ● French
- ○ German
- ○ Italian
- ○ Portuguese
- ○ Spanish

2. What is the first line of the message you decrypted from **secretmessage3.txt**?

1 point

La chambre à coucher de Juliette.

3. What is the language of **secretmessage4.txt**?

1 point

- ○ Danish
- ○ Dutch
- ○ English
- ○ French
- ● German
- ○ Italian
- ○ Portuguese
- ○ Spanish

4. What is the first line of the message you decrypted from **secretmessage4.txt**?

1 point

Drei Hexen treten auf.

5. Recall that the choice to test key lengths 1–100 was arbitrary, and that the longer a key is with respect to an encrypted message, the less likely this Vigenère decryption algorithm is to work.

1 point

How long would a key have to be, so that you could gain no information about an original message by analyzing the encrypted message?

- ○ 1/26 the message length
- ○ Half the message length
- ● Exactly the message length
- ○ There is no key length that ensures an unbreakable Vigenère implementation.

6. The Vigenère decryption algorithm used in this lesson has limitations.

1 point

In which of the following scenarios could the program return incorrect results? (Select all that are correct.)

- ☐ The language of the original message has many characters not in the English alphabet.
- ☑ The language of the original message when written in sentences has different letter frequencies than the sum of individual words in the dictionary.
- ☑ The language of the original message is not included in the dictionaries.
- ☐ The language of the original message has multiple letters of comparable high frequency.
- ☐ The language of the original message has an unusual letter that is highest in frequency (not 'e' or 'a').

7. Consider the Vigenère decryption algorithm described in this lesson.

1 point

Which one of the following could be a problem?

- ● The key length is long compared with the message.
- ○ The message is long compared with the key length.
- ○ Neither—the key length compared with the message is unimportant.

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