1.

1 point

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

○ Danish

○ Dutch

○ English

● French

○ German

○ Italian

○ Portuguese

○ Spanish

2.

1 point

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

La chambre à coucher de Juliette.

3.

1 point

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

○ Danish

○ Dutch

○ English

○ French

● German

○ Italian

○ Portuguese

○ Spanish

4.

1 point

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

Drei Hexen treten auf.

5.

1 point

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.

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.

1 point

The Vigenère decryption algorithm used in this lesson has limitations.

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

☑ The language of the original message has multiple letters of comparable high frequency.

☐ The language of the original message is not included in the dictionaries.

☐ The language of the original message has an unusual letter that is highest in frequency (not 'e' or 'a').

☑ 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.

7.

1 point

Consider the Vigenère decryption algorithm described in this lesson.

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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