

Student	Trushita Narapati	70
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Part 1

	Available	Marks
Create a matrix <code>vigenere</code> that contains the character data. Display this matrix.	5	5
Using the keyphrase <code>UWTSDSWANSEA</code> , encrypt the message <code>CAPTURETHEFLAG</code> using the method described. You should create a vector <code>keyphrase</code> to hold the keyphrase, a vector <code>plaintext</code> to hold the plaintext and a vector <code>ciphertext</code> to hold the ciphertext. Display the plaintext and the ciphertext.	25	18
Decrypt the following ciphertext using the keyphrase <code>RPROGRAMMING</code> and store the result in the vector <code>plaintext</code> . <code>ETMSXWISTBNHRIKZKKHMFGBAUDECZEEQPBBCZC</code>	25	18
Commenting and use of white space	5	4
	TOTAL	45
Comments Good use of white space. More comments would be useful. Q1: Good use of <code>LETTER</code> to create the matrix. There is no need to include an encryption as the testing. Q2: There is no need to recreate the matrix. The task just asks you to extend the script to perform the encryption. Q3: Good solution.		

Part 2

	Available	Marks
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 1	10	5
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 2	10	6
Explain how your code works (including a flow chart) and explain how you tested your code (include examples of the code and data used). TASK 3	10	6
A reflection on what you found challenging, what you learned, and what you would do differently next time.	10	8
	TOTAL	25
Comments T1: Make sure that your diagrams don't get squashed when using MS Word. Why use different diagram generators for different questions? Explanation needs a bit more detail. T2: Okay, but needs more detail. The flowchart is much better in this question. T3: Again, more detail needed, e.g. referring to vectors by name. Good reflection.		