

Student	Tang Yufei	
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Part 1

	Available	Marks
Create a matrix <code>vignere</code> that contains the character data. Display this matrix.	5	2
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	12
Decrypt the following ciphertext using the keyphrase <code>RPROGRAMMING</code> and store the result in the vector <code>plaintext</code> . <code>ETMSXWISTBNHRIKZKKHMFGBAUDECZEEQPBBBCZC</code>	25	12
Commenting and use of white space	5	1
	TOTAL	27
Comments As this course is taught in English the comments should be in English. Remember to include your name and student ID in a comment at the start of the script. There should be more comments. Q1: You were specifically told not to create functions or use <code>supply()</code> in this assignment. The question told you to call the matrix 'vignere', not 'vignereTable'. The code works well but does not meet the assignment requirements. Q2: You were specifically told not to use functions in this assignment. The code works well but does not meet the assignment requirements. Q3: You were specifically told not to create functions in this assignment. The code works well but does not meet the assignment requirements.		

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	7
	TOTAL	24
Comments Q1: Code explanation needs more detail. Flow charts should always be done as diagrams not as text. Q2: Code explanation is okay. Flow charts should always be done as diagrams not as text. Defining the inputs and outputs is a good idea. Q3: Code explanation is okay. Flow charts should always be done as diagrams not as text. Defining the inputs and outputs is a good idea. A good reflection. Anything you can do by writing a function you can do without a function. It may involve repeating code, but it can be done. Remember to read and follow the assignment instructions carefully next time. If you had completed this without using functions you would have achieved a much higher grade.		