BCP / AMDG
Discrete Math

Name:	
	Fall Semester

<u>Assignment</u>

Using Graph Theory to Model Systems

Our math department has 10 classes that need to be scheduled in the spring. Below is a list of classes that cannot be scheduled at the same time due to teacher or enrollment constraints.

Class	Cannot be Scheduled During the Same Period as
A	D, I
В	D, I, J
С	E, F, I
D	A, B, F
E	С, Н, І
F	C, D, I
G	J
Н	E, I, J
I	A, B, C, E, F, H
J	B, G, H

Task

In the space below, draw a graph that represents the information in the table that will help you determine the minimum number of periods required to schedule every class.

Analysis

Briefly explain using complete sentences how you can use the graph you drew to determine the minimum number of periods required to schedule every class.