**PROBLEM 1D Evaluation - Design**                                    **Max mark: 2**

Let **Course** be an array of type *struct course* where each element has 4 fields:

- *code:* stores the course code

- *name:* stores the course name

- *adjList:* stores the pointer to the *head* of adjascency list corresponds to the course.

- *NoPreRequisites*:  stores number of direct prerequisites for the course.

## *getMaxPreRequisitesCourse*

1.   For i from 0 to n-1                // n is the number of courses
    1.1.   count=0
    1.2.   For j from 0 to n-1 and i!=j
        1.2.1.    temp=Course[j].adjList
        1.2.2.    while(temp!=null)
            1.2.2.1.    if temp.code=Course[i].code
                1.2.2.1.1.    count=count+1
                1.2.2.1.2.    break
            1.2.2.2.    temp=temp.next
    1.3.    Course[i].NoPreRequisites=count                          (step 1: 1 mark)
2.   Max_Value=0
3.   For i in range 0 to n-1
    3.1.    If(Max_Value<Course[i].NoPreRequisites)
        3.1.1.    Max_Value=Course[i]. NoPreRequisites        (steps 2,3: 0.5 mark)
4.   For i in range 0 to n-1
    4.1.    If(Course[i].NoPreRequisites = Max_Value)
        4.1.1.    Print(Course[i].code )                              (step 5: 0.5 mark)


[Other correct algorithms may be given full marks.]