



GCSE

4343/01

**COMPUTER SCIENCE CS3
CONTROLLED ASSIGNMENT**

For submission in May 2015

(15 hours)

INSTRUCTIONS TO CANDIDATES

This is one of two scenarios available. Each scenario is available separately. You may choose either of the two scenarios. You will have 15 hours to complete your chosen task.

Research tasks can be carried out outside timed conditions.

Read the scenario carefully to make sure that you understand what is needed.

It is important that you work independently from other candidates and make sure that what you hand in is your own unaided work.

Your report should be about 2,000 words.

Make sure that you check your work carefully to ensure that the work you produce is accurate and correct.

Save your work regularly.

INFORMATION FOR CANDIDATES

Teachers and candidates will be required to sign a declaration that all work presented is the work of the candidate alone. Failure to authenticate the work may result in grades being delayed or refused.

The quality of written communication will be assessed in your evaluation.

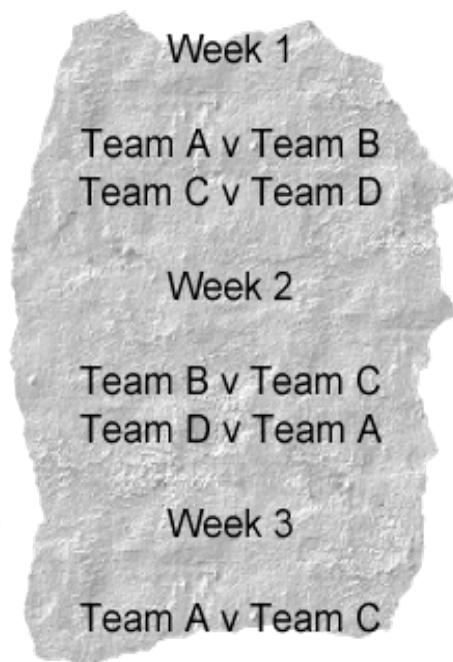
Scenario 1

Home and Away

Sam Smith organises an annual competition between four local sports clubs and wants to be able to record and recall the results from home and away fixtures. The teams play each other twice during the competition, one home match and one away match.

Sam wants to be able to enter the scores from each fixture. The system should then be able to convert the scores into points and store them, indicating if it was a home or away fixture.

In the result of a draw at the end of the competition, the team with the most away points will win the title for that year.



Your task is to write an application to:

- Input the scores from each match.
- Calculate and store the points earned by each team.
- Record if the points are home or away points.
- Display all the teams and their total number of points.
- Calculate the number of away points in the case of a draw at the end of the competition.

Produce a report fully documenting your solution to automate this process. Credit will be given for the quality of your solution. Your report should be about 2,000 words.