

Lab 4

Basketball

Objective

To use a two-dimensional built-in array.

Assignment

A basketball scoreboard has the following form. The eight “quarter” slots contain the number of points scored in each quarter by each team. The “halftime” and “final” slots contain the point totals at halftime and at the end of the game.

	1st Qtr.	2nd Qtr.	Halftime	3rd Qtr.	4th Qtr.	Final
Visiting Team						
Home Team						

Write a program using a minimum of three functions that helps to keep track of the score during basketball games. Use a two-dimensional array of integers to represent the scoreboard. The program should do the following:

- Each quarter, ask the user for the number of points scored by each team.
- Calculate the halftime score and final score
- Display the quarter, halftime, and final scores as shown above
- Determine who won
- Determine the quarter in which the most total points were scored