

Arrays: Sets of Variables

Part One

Write a program which uses arrays to choose lottery numbers. You will need an array of seven integers to hold the lottery numbers and find a library function to generate random numbers. You will need to scale these to the range 1 to 49. You will also need to make sure that you do not choose two of the same numbers. You will probably need to use a FOR loop to check each number in your array.

Your program should print out the seven numbers that have been chosen and exit.

If you use your program to pick winning lottery numbers then you should share your winnings with your fellow students and teachers!

Part Two (*challenging*)

Your program should print out the seven numbers that have been chosen **in numerical order**. There are several ways of approaching this – you could search your array of numbers for the lowest, print this out and then set that value of the array to zero. Search the array again for the lowest value, but ignoring any zeroes. You could also try swapping values around your array until it is in the right order. Do a web search for “bubble sort” if you want to try this.

Academic Skills – Use of Information

Those of you who opted to apply your academic skills – “Use of Information” to this course are required to submit part one of this practical by e-mail. Please include a short description of how you located the information about random numbers in Pascal (books, on-line help, internet etc.). Please submit this information by March 13th.

Karl Wilcox - February 2003