

CTA - Week 3 - Practice Homework

Work these out on paper, if you want you can then program an implementation. Doubtless the answers exist on-line so if you don't want to learn you can Google them but then you will never learn how to think like a programmer and that will be very sad. These are solvable given the techniques covered already: loops, conditions, variables, modulus operator etc.

1. Write an algorithm that returns the largest element in an array. Assume the array is unsorted.
2. Write an algorithm that returns a new array which is the reverse of the input.
3. Write an algorithm that checks whether an element occurs in an array.
4. Write an algorithm that returns the elements on odd positions in an array.
5. Write an algorithm that computes the running total of an array of numbers.
6. Write an algorithm that prints a multiplication table for numbers up to 12.
7. Write an algorithm that prints the first 100 prime numbers.
8. Write an algorithm that prints the numbers from 1 to 100 and for multiples of '3' print "Fizz" instead of the number and for the multiples of '5' print "Buzz".