ISPRIME(inputNumber, possibleFactor) (n-1)

‘’’ function takes in an integer larger than one (as otherwise it cannot be a prime number so there is no point checking). It also takes in another integer which is less than the first integer. Function continually checks if inputNumber divided by any number up until 1 can be divided without a remainder. If it can be, then it must not be a prime number and thus returns False. If it cannot be it calls the function again with the possibleFunction variables value being one less than last time. If the possibleFactor value becomes equal to one. Then the input number is prime and True is returned.’’’

If possible factor = 1 (n-1)

Return True (1)

Else If inputNumber mod possibleFactor ≠ 0 (n-2)

Return ISPRIME(inputNumber, possibleFactor-1) (n-2)

Else (1)

Return False (1)

Run time: (4n-6) + 3

Big O: O(n)