

MS-382
Program #3
Nested IF statements
& For Loops

Date Given: Wednesday, January 11, 2006

Date Due: Wednesday, January 18, 2006

A number is said to be “prime” if its factors are 1 and itself. For instance, 7 is a prime number since its only factors are 1 and 7 (i.e. only $7 * 1$ yields the product 7 from among the set of whole numbers). In this program we will be concerned with whole number primes. The task is to write a program that computes and reports the prime numbers between 1 and 100. To make your program more efficient, take advantage of the fact that, for positive integers, if a number n has no factors between 1 and \sqrt{n} then it is a prime number.

It would be a good idea to begin your work with a design of the program in the form of an outline or flowchart before proceeding with the coding phase of development. Be sure to test your results for correctness.

When you are satisfied with your results, send your completed program and flowchart or outline or pseudocode to bleasing@msoe.edu. Be sure to comment your source code so that the final program is easy to follow.