

CS 1014: STUDY GUIDE FOR TEST 2

Test 2 is scheduled for Tuesday, April 6, 1999. You will be required to answer all multiple choice questions in the test. Although most of the questions in the test will be on the materials covered from the course notes, you should study the materials from the course notes as well as from the text book (chapter 3: sections 3.5-3.7, chapter 5, chapter 6). You should be familiar with Fortran statements, keywords, functions etc. as introduced and discussed in the class after Test 1. You should be in a position to understand and analyze a given Fortran code segment and answer questions following the code segment. Study all example programs handed out in the class and also solve the practice problems. You will find some similar code segments or problems in the test as in example programs and practice problems handed out in the class.

The following is a list of topics, keywords, terms, etc. that you may use as a guide to prepare yourself for the test. However, the list is not inclusive. Depending on your background, you may also need to study materials outside the list as well.

Preliminaries:

Read loop, intrinsic or built-in functions, SQRT function, INT function, REAL function, MOD function, SIN function, IABS function, ABS function, documentation.

Selection:

Logical IF statement, Boolean expressions and conditions, logical constants (.TRUE., .FALSE.), relational operators, block IF example, nested IF statements, compound conditions, logical operators (.AND., .OR., .NOT.), CASE statement.

Loops:

DO WHILE statement, end-of-file controlled loops, Boolean or logical variables, count-controlled loops, DO statements.

Character String:

Character data, character data input, character variables, character data output, character comparison, substrings, string operations, string functions.

Derived Data Types:

TYPE ... END TYPE statement, declaring variables of derived types, component referencing, structure constructors.