

- E 7. A sequence of statements that are executed repetitively for a specified number of times is a(n)
- DO loop.
 - uncontrolled loop.
 - count-controlled loop.
 - condition-controlled loop.
 - both a and c.

- C 8. Subscripts for an array
- can be any FORTRAN variable.
 - can be any integer number.
 - must be in integer mode.
 - both a and c.

- B 9. Parameters are used in a program to
- create a program that is easy to document for future use.
 - make the program more applicable to a variety of situations without modifying the program.
 - simplify the debugging process.
 - complicate the program for security reasons.
 - both c and d.

- C 10. Program maintenance is the process of
- re-punching cards as they become too worn to be read by the card reader.
 - modifying the data collection and data entry system when new situations arise so that the program can be used with no changes.
 - changing or modifying programs from time to time to keep them up-to-date and useful.
 - assuring the operation of the computer by periodic scheduled maintenance of the CPU.
 - none of the above.

The following question is worth 8 points.

11. Consider the following array X:

$X_1=5.2$	$X_4=-2.0$	$X_7=-8.1$
$X_2=3.1$	$X_5=6.7$	$X_8=10.0$
$X_3=0.$	$X_6=0.$	

- a. What statement is necessary to reserve memory space in the computer for the array X?

DIMENSION X(8) 2 pts

- b. Specify the value of each of the following array elements if K=2:

i. $X(K)=$ <u>3.1</u>	iii. $X(5-K)=$ <u>not allowed</u>
ii. $X(3*K)=$ <u>0.</u>	iv. $X(K-3)=$ <u>undefined</u>

1.5 pts each
(round up at end of exam)