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K201 Exam
12/9/74

(30 pts.) 1. Identify any errors in the following FØRTRAN statements

a) X2 = (RATE(3) - RATE(-3))/D

b) DO 40 I=0,17

c) X3 = S*T(2.) + 16.

d) DO 40 Y=1,24,3

e) X4 = A(N)/B(3*N-2)

f) X5 = TIME(2*K/L)

(20 pts.) 2. What would be the value of M after executing each of the following program segments?

a)
```
M=0
DO 13 I=1,20
13 M=M+1
```
M=_____

b)
```
M=0
DO 13 I=1,12,2
13 M=M+1
```
M=_____

c)
```
DO 13 J=1,5
DO 13 I=1,7
13 M=M+1
```
M=_____

d)
```
DO 15 I=1,6
DO 20 J=1,5
15 M=M+1
20 M=M-1
```
M=_____

3. Assume that we have an array W composed of 300 elements already stored in the computer memory (i.e., defined and already dimensioned) as a result of a previous portion of the program. Write a program segment (including any needed DIMENSION statements) for each of the following independent purposes:

(10 pts.) a) Add together the squares of all the elements of W and call the results WSQ.