

K201 - Quiz 1B
1/21/82

Each of the following questions counts 2 points.

- What is the maximum number of characters that can be recorded on a single punched card? 80
- According to card coding scheme, each letter of the alphabet is represented by (how many) 2 holes in a column.
- Control unit is a part of CPU. Name two other functional units which belong to CPU: ALU MEMORY
- The physical components that make up the computer are referred to as HARDWARE.
- A FORTRAN statement that is not translated into any instruction is called a NONEXECUTABLE statement.
- When an alphabetic data item doesn't fill the entire card data field, we usually align the data to the (which) LEFT side and leave any blanks on the RIGHT.
- Identify the mode (or explain what is wrong if incorrect) of each of the following constants:
 - 2,166.44 COMMA NOT ALLOWED
 - 0.0 DECIMAL
- Each of the following are considered to be a FORTRAN variable. If any of them is valid indicate the mode, otherwise explain why it is not valid.
 - QUIZ1B DECIMAL
 - KARPET INTEGER
- Perform the following calculations using the FORTRAN rules of arithmetic:
 - $(13-5/8)/7 = 1$ $(13-0)/7 = 13/7 = 1$
 - Let: GAMMA=3.5, E=.1, RDIAN=2.
 $1.2*(RDIAN-5.*E*GAMMA)/(RDIAN-GAMMA) = -.2$
 $1.2*(2.-5*.1*3.5)/(2.-3.5) =$
 $= 1.2*(2.-1.75)/(-1.5) =$
 $= .3/(-1.5) = -.2$
- Indicate the errors, if any, in the following FORTRAN expressions:
 - $X22-(3.3*NEMO**2(K-1)+A)/B-B1$
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 1. MIXED MODES (NEMO IS INTEGER VAR)
 2. MISSING OPERATOR ($2(K-1)$)
 - $((K-3*KK/(IMIGE+5)-K**5)$
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 1. TOO MANY PARENTHESES
 2. INTEGER RAISED TO A DECIMAL POWER