Tasks

1. Write a program to display a “?”, read two capital letters, and display them on the next line in alphabetical order.

2. Write a program to display the extended ASCII characters (ASCII codes 80h to FFh). Display 10 characters per line, separated by blanks. Stop after the extended characters have been displayed once.

3. Write a program that will prompt the user to enter a hex digit character (“O"....“9" or “A”... “F”), display it on the next line in decimal, and ask the user if he or she wants to do it again. If the user types “y” or “Y", the program repeats; if the user types anything else, the program terminates. If the user enters an illegal character, prompt the user to try again.

Sample:

ENTER A HEX DIGIT: 9
IN DECIMAL IS IT 9
DO YOU WANT TO DO IT AGAIN? y
ENTER A HEX DIGIT: c
ILLEGAL CHARACTER - ENTER 0..9 OR A..F: C
IN DECIMAL IT IS 12
DO YOU WANT TO DO IT AGAIN? N

Tasks

4. Do the previous problem again, except that if the user fails to enter a hex-digit character in three tries, display a message and terminate the program.

5. Write a program that reads a string of capital letters, ending with a carriage return, and displays the longest sequence of consecutive alphabetically increasing capital letters read.

Sample:

ENTER A STRING OF CAPITAL LETTERS:
FGHADEFGHC
THE LONGEST CONSECUTIVELY INCREASING STRING IS:
DEFGH