Problem 1

Write a complete C++ program that prints the numbers from 28 to 387 with 10 numbers (separated by spaces) on each line.

The output from your program should begin

28 29 30 31 32 33 34 35 36 37
38 39 40 41 42 43 44 45 46 47

Problem 2

Write a complete C++ program that prints the numbers from 980 down to 666 with 6 numbers (separated by spaces) on each line.

The output from your program should begin

980 979 978 977 976 975
974 973 972 971 970 969

Problem 3

1. It asks the user to enter a 2-digit integer.
2. If the entered number does not have 2 digits, the program forces the user to enter further integers until one with 2 digits is given.
3. The program then prints the bigger of the 2 digits in the user's number (either digit in case they are the same).

Here is an example of how the program should work:

Enter a 2-digit integer: 123
That does not have 2 digits. Try again: 35
The bigger digit is 5

Problem 4

Write a complete C++ program that does the following. (Programs that correctly carry out some of the tasks will receive partial credit.)

1. It asks the user to enter an integer $n$ that is between 1 and 9.
2. It repeatedly reads $n$ from the user until the supplied value of $n$ is legal.
3. It prints out a picture of a triangle with $n$ rows, in which the symbol used to print each row is the row's number.

Here is an example of how the program should work: