About Lab 2

Lab 2 calls for you to write 10 programs!

 One prints the old "99 bottles of beer on the wall" song.

A typical verse is

90 bottles of beer on the wall

90 bottles of beer!

Take one down, pass it around

89 bottles of beer on the wall.

Clicker Q: Will you do this with a FOR-loop or a WHILE-loop?

A) FOR

B) WHILE

C) Either

- One program asks the user to enter a number n, and then prints the perfect squares from n² to 1, separated by commas.
 For example, if n is 4 it prints 16, 9, 4, 1
 The commas are the tricky part.
- One asks for the number n and then prints the nth Fibonacci number.
- One asks the user for an initial bank balance, the interest rate, a monthly deposit amount, and a number of months; the program prints the value of the account after each month.

Finally, the lab has 6 patterns that you are asked to code. Each pattern asks the user for a size. For example, Pattern C has this for size 3:

and this for size 4:

- 3 4

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For the size n figure, number
the rows from 1 to n.
How would you describe row i?
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- A) Row i has the numbers from 1 to n
- B) Row i has the numbers from 1 to i
- C) Row i has the numbers from i to n
- D) Row i has the numbers from i to 1

Here is the code for pattern C:

Pattern B with size 4 is

- 1111
- 2222
- 3 3 3 3
- 4444

How would you describe row i for this pattern with size n?

- A) Row i has the numbers from 1 to n
- B) Row i has the number i n times
- C) Row i has the number n i times
- D) Row i has the number n n times