PROBLEM 1: CHEAPER BY THE DOZEN ☺
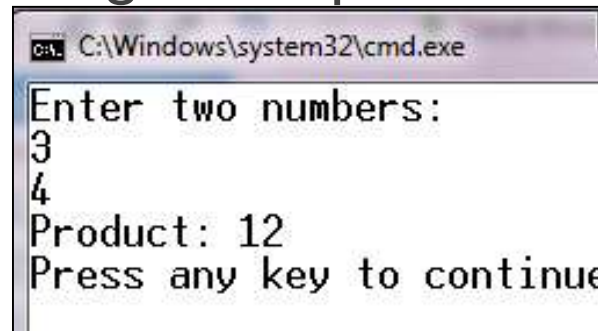
- You need to buy a big quantity of pens to get ready for the school year, at least 6 dozens ! (6 dozens = 6*12 = 72)

- Implement a program with a function that <u>converts a number to dozens</u>. In case the resulting dozens are 6 or more, the program displays an okay message. Otherwise, it displays that this is not enough.

- Sample Run:

  Enter number of pens: 40

  Not enough

PROBLEM 2: PRODUCT USING SUM

- Implement a program to compute the product of two numbers by th sum operation using for loop.
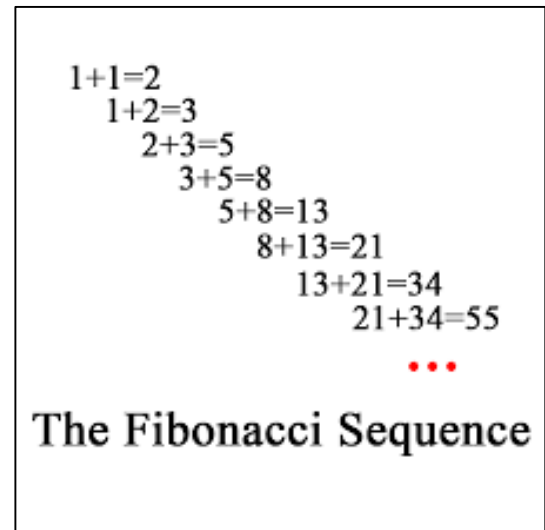

- Note:

6x4 = 6+6+6+6= 24

3x7= 3+3+3+3+3+3+3= 21

PROBLEM 3: FIBONACCI SEQUENCE

- Program that displays the first N Fibonacci sequence values after 0 and 1(without using arrays)

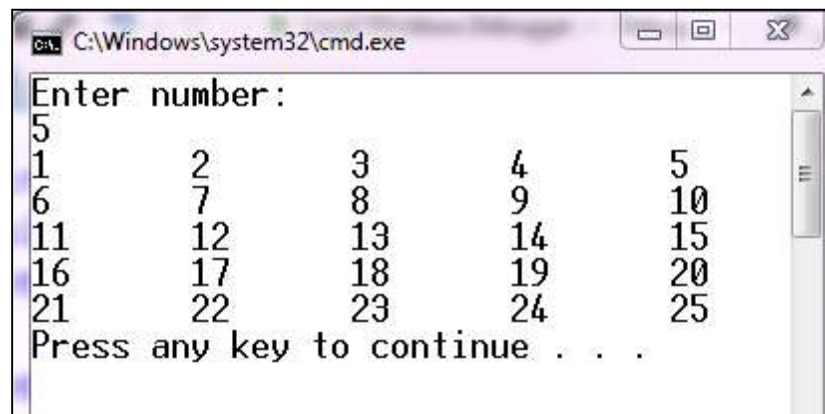 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, …..

$$F_n = F_{n-1} + F_{n-2}$$

```
1+1=2
 1+2=3
  2+3=5
   3+5=8
    5+8=13
     8+13=21
      13+21=34
       21+34=55
        • • •
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The Fibonacci Sequence

PROBLEM 4: NUMBERS GRID

- Write a function that takes as input parameter a number N and then prints on the screen the numbers 1 through N^2 arranged in a NxN grid.

- An example is shown below, where argument passed is 5.