Engineering Graphics

Q: How does an attorney sleep?

A: First he lies on one side and then on the other.

```
Public Sub CountFemales()

    Dim Count As Integer, Index As Integer
    Dim Age As Integer, Sex As String

    Count = 0

    For Index = 1 To 1000

        Age = ActiveCell.Offset(Index - 1, 0).Value
        Sex = ActiveCell.Offset(Index - 1, 1).Value
        Count = Count + FemaleCount(Age, Sex)

    Next Index

    Range("C1").Value = Count

End Sub
```


Loop Examples

- When $1000 is deposited at 5 percent simple interest, the amount grows by $50 each year.
- When the money is invested at compound interest, the amount at the end of each year is 1.05 times the amount at the beginning of the year.

Loop Examples

- Write a macro to display the amounts for 10 years for an amount deposited by the user (input box) and an interest rate input by the user (input box).
- Display a table of the year, account balance at simple interest and account balance at compound interest.

Loop Examples - #2

- The ideal weight for a woman is found by multiplying her height in inches by 3.5 and subtracting 108.
- The ideal weight for a man if found by multiplying his height in inches by 4 and subtracting 128.

Loop Examples - #2

- Write a macro that requests a starting height in inches from the user and a ending height from the user using input boxes.
- Develop a table containing heights and ideal weights for both men and women on the sheet.

Homework

- This year's level of production and price for most products greatly affects the level of production and price for the next year.
- The price production levels at related according to these expressions

Homework

$$[price\ this\ year] = 20 - .1 \times [quantity\ this\ year]$$
$$[quantity\ nexty\ ear] = 5 \times [price\ this\ year] - 10$$

Homework

- Given a stating quantity for a product this year (from an inbox) use a macro to develop a table for the price and quantity produced for each year from this year and for the next 12 years.
- Due 2 Feb 2005 at the beginning of class