

- Control the case of characters and strings
- Determine the number of characters contained in a string
- Compare a portion of a string variable's contents to another string
- Determine whether a string is contained within a string variable
- Replace a portion of a string variable's contents with another string
- Assign a portion of a string variable's contents to another string variable
- Duplicate a character within a string variable
- Concatenate strings
- Clear the contents of the DOS window

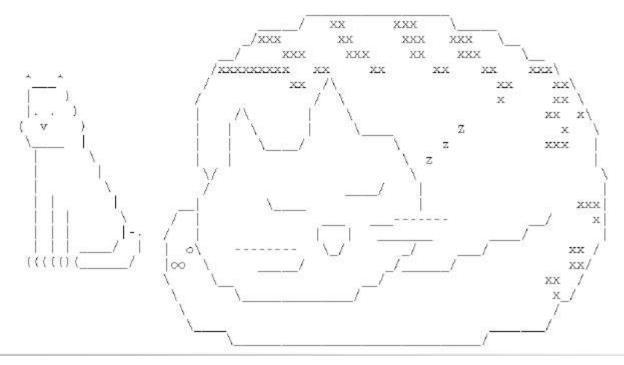


- You can use the C++ replace function to replace a portion of a string variable's contents with another string
- Connecting (or linking) strings together is called concatenating
- The concatenation operator in C++ is the plus sign (+)



## ASCII Art

- Half of the lines of code in the Hangman aren't really code at all.
- Multiline Strings that use keyboard characters to draw pictures.
  - ASCII stands for American Standard Code for Information Interchange



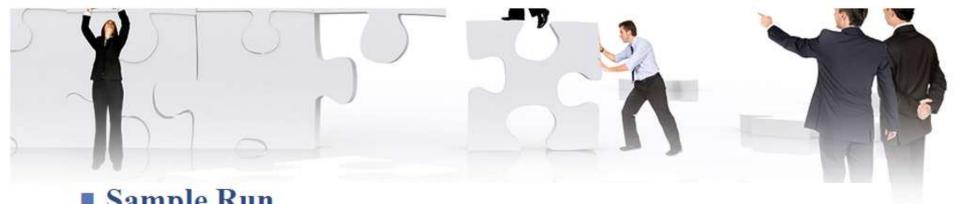


In case you aren't familiar with the game Hangman, the rules are as follows:

- 1. Computer chooses a secret word, then writes out a number of dashes equal to the word length.
- 2. The player begins guessing letters. Whenever s/he guesses a letter contained in the hidden word, the computer reveals each instance of that letter in the word. Otherwise, the guess is wrong.
- 3. The game ends either when all the letters in the word have been revealed or when the guesser has run out of guesses.



Missed letters: or \_ a \_ Guess a letter.



## ■ Sample Run

HANGMAN



Missed letters: Missed letters:

Guess a letter. Guess a letter.

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Missed letters: o

Guess a letter. r

Missed letters: or

Guess a letter.

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Missed letters: or

a t

Guess a letter.

You have already guessed that letter. Choose again. Guess a letter.

Yes! The secret word is "cat"! You have won! Do you want to play again? (yes or no)



- Use file "CommonWords.txt" to randomly choose a word...
  - You MUST determine how many words are in the file
  - FYI only: the file has 337 lines, each is a word
- #include "clearScreen.h", use function clearScreen() to ...
- Initial art drawing sample in file: DrawGallows.txt
- You must properly design your code: Decide on appropriate functions needed.
- If player reused a letter again, it will not affect # of guesses left. The user will see a message saying "you guessed this letter before"
- Every wrong guess adds a part to the hangman.
- A list of missed letters is always displayed as well as guesses left



## **THAT'S ALL FOLKS!**