- Instructor Early on Wednesdays

- In class checkpoint on Thursdays

- Program due next Monday

- HW due tomorrow

Announcements

CS 180 - Huffman man codes
# 6.18 = 8 * (# letters)

Is this the best way?

ASCII codes

Question: How do we transmit messages?

Go over new program
How can we make this give Freestop if the bits are possible?

\[
\#_{\text{l+5}} = (\#_{\text{of S}} - \#_{\text{chars not S}}) + 9
\]

a common character (like $S$)

If we only spend a bit to send
This sentence contains three $\omega$.

Eight letters: eighteen six - six, five. Five,

Two is twenty-six. Six, five. There is.

Compute frequency counts of all the letters.

Greedy algorithm

Huffman codes:
Suppose we know frequency counts. What should we do?

Higher frequency count fewer bits.

Build tree to encode our bit strings.

Make low frequency counts be deeper leaves in the tree.
Exercise:

Sum of ASCII Counts:

Write a function which is the "Inverse Function" into a single character.

Take at least 2 arguments.

Algorithm: