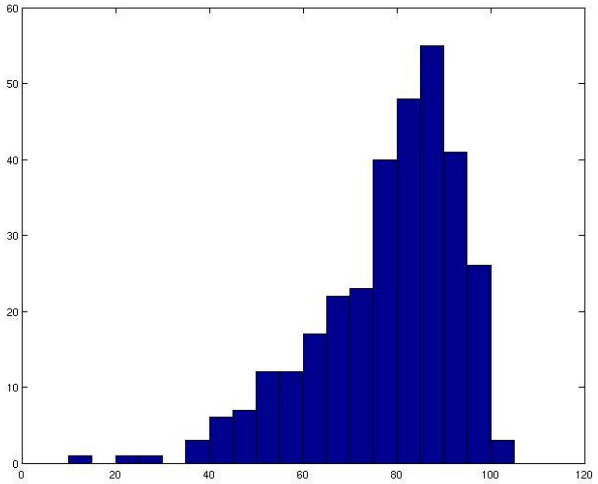
Matlab day 2

Exam scores
Histogram via Matlab



Approximate grade ranges

Score	Grade	# of folks
88+	A range	91
75-87	B range	122
58-74	C or C+	70
50-57	C-	16
<50	D or E	19

Project C

- Airplane scheduling is extra credit (5%)
- 4pm today will post code to do selection

Today

- Applying what we know
  - Graphing histograms
  - Linear physics
  - Non-linear physics

Histogram

- HIST Histogram.
  - N = HIST(Y) bins the elements of Y into 10 equally spaced containers and returns the number of elements in each container.
  - N = HIST(Y,M), where M is a scalar, uses M bins.
  - N = HIST(Y,X), where X is a vector, returns the distribution of Y among bins with *centers* specified by X.

Hist count

- HISTC Histogram count.
  - N = HISTC(X,EDGES), for vector X, counts the number of values in X that fall between the elements in the EDGES vector (which must contain monotonically non-decreasing values). N is a LENGTH(EDGES) vector containing these counts.

Matlab

- Two examples
  - Linear
    - Cannon ball, no air resistance
  - Non-Linear
    - Cannon ball, air resistance