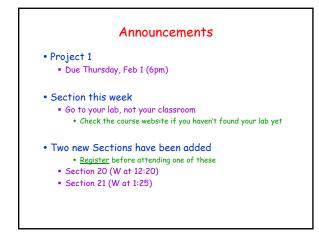
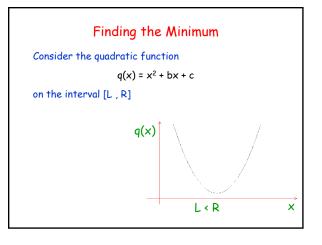


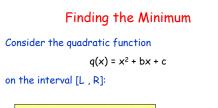
## Branching (if-else)

Lecture 3 (Jan 30) CS100M - Spring 2007









• Which is smaller, q(L) or q(R) ?

- Does q'(x) have a zero in [L , R]?
- What is the minimum value of q(x) in [L , R]?



Calculate q(L) Calculate q(R) If q(L) < q(R) print "q(L) less than q(R)" Otherwise print "q(L) greater than or equal to q(R)"

## Equivalent Matlab Fragment

```
% Min-Finding Fragment
qL= L*L + b*L + c; % q(L)
qR= R*R + b*R + c; % q(R)
if (qL < qR)
fprintf('qL less than qR\n');
else
fprintf('qL >= qR\n');
end
```

## **Relational Operators**

- < Less than
- > Greater than
- <= Less than or equal to
- >= Greater than or equal to
- == Equal to
- ~= Not equal to

