















## Analysis to Design to Programming

Analyze the problem

Then design a "big-picture" solution A functional decomposition shows how the pieces fit together Then design individual functions May depend on low-level ("primitive") functions available

Final programming may be very detailed



## Top Down or Bottom Up?

Which approach are we following with DrawHouse?

Answer: Generally, top down. But we have to look ahead and know what low level functions will be available

Eventually, there will be graphics programming to do. Fortunately, most systems supply a library of graphics "primitives"

1.41















## draw\_house: preconds and postconds

void draw\_house (int color, int II\_x, int II\_y, int windows) preconds: what are they?

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postconds: what are they?











