STEPWISE REFINEMENT W4

Successively refine a complex problem into simpler

Sub-problems by introducing increasingly basic functions."

· IX: House Drawing

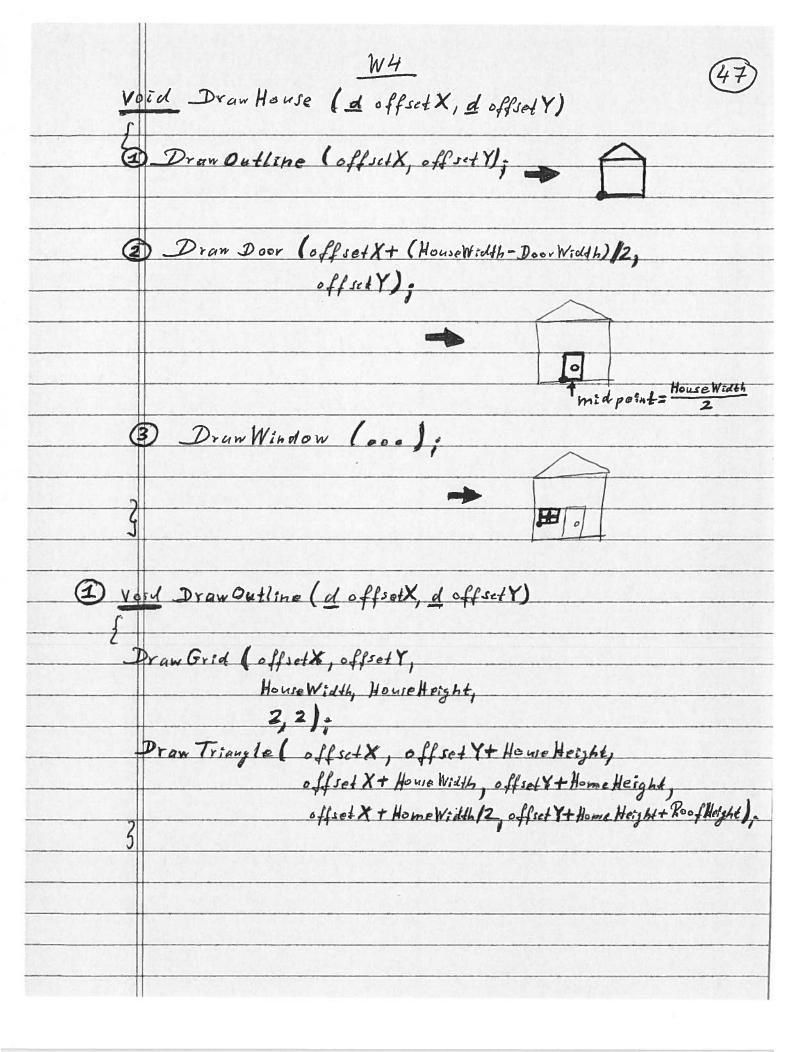
	$\int \frac{1}{2}$	Home Width	2,0
1	-2	Home Height	2.0
		Roof Height	0.5
	0.4	Door Woulth	0,4
	1	Door Height	0.7
	0 0.7	Window	0.75
R		Window	0.75
7	(2.5, \frac{1}{2}		
(# 12) (Window X, Window Y)		offset X	0.5

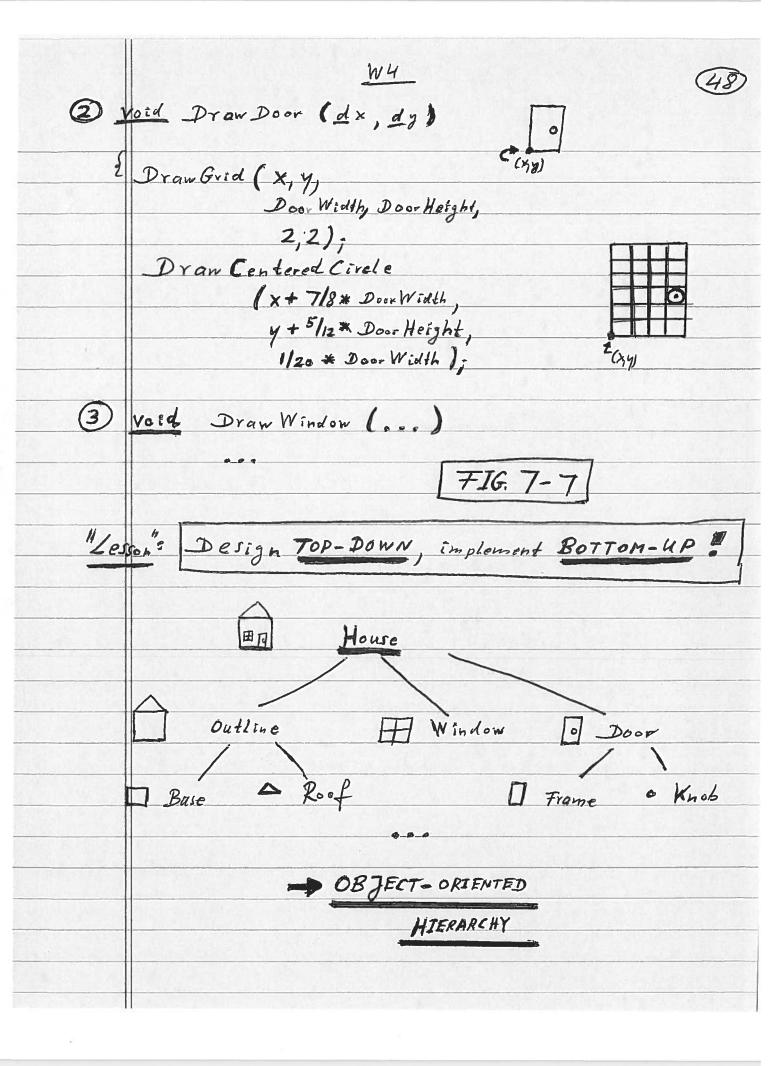
Refining this drawing problem stepwise"?

& offset X, offset Y,

Init Graphics (); Draw House Coffset X, offset Y); offset X = or -

Drawing function to be refined





Program Module / Function Structure: main () (1) High-level functions " short sequence of Calling medium-level high-level function and low-level functions (i) Medium-level functions Gealling Clow-level functions (iii) Low-level functions: - DrawLine Draw Box Draw Trangle = Draw Grid etc. PRECISE specification and VALIDATION of Lon-level functions possible + Can 'verify' CORRECTNESS IM PLEMENT and TEST low-level functions first

