Problem: Considering the following sequence of operations. Assume (for simplicity) inputs and outputs don't need to be routed (can just appear where needed). For delays, assume operations cost unit delay and it costs unit delay to cross each position in the 1D placement.

A=i0+i1 B=i1+i2 C=i2+i3 G=A*B H=B*C O=G+H



For the above placement, what is the:

Wire Length				
Squared Wire Length				
Channel Width				
Critical Path Length				

Find a better placement, and summarize the same metrics:

Wire Length	
Squared Wire Length	
Channel Width	
Critical Path Length	