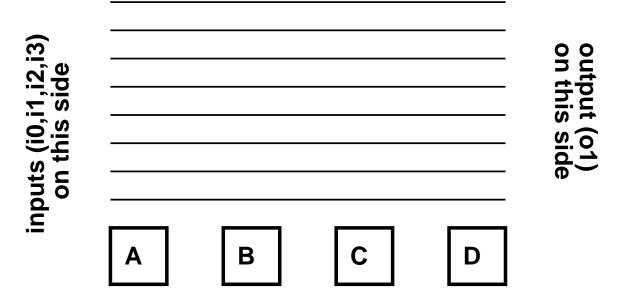
Consider the following 1D placement for the logic:

$$A = i0^*i1; B = A+i2; C = i0^*i3; D = B+C; o4 = D$$



Assume:

- Input pins are on the left of the gate.
- Gate output is the rightmost pin on the gate.

1. What is the maximum channel density?

- 2. Assign the net connections to channels to minimize the number of channels required.
- 3. How many channels do you need to route the all the nets?