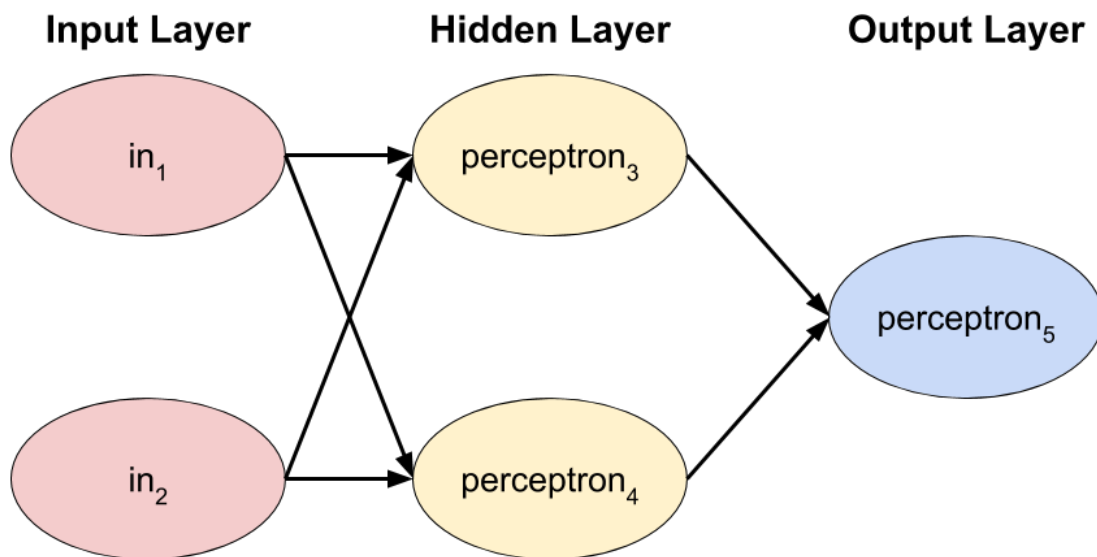


## Perceptrons 2

### Required Tasks 1 Output:

- For  $n = 2$  bits, there are 16 possible functions, and 14 can be correctly modeled.
- For  $n = 3$  bits, there are 256 possible functions, and 104 can be correctly modeled.
- For  $n = 4$  bits, there are 65536 possible functions, and 1882 can be correctly modeled.

### 2-2-1 XOR Network:



### Values:

- $w_{1,3} = 1$
- $w_{2,3} = 1$
- $b_3 = 0$
- $w_{1,4} = -1$
- $w_{2,4} = -2$
- $b_4 = 3$
- $w_{3,5} = 1$
- $w_{4,5} = 2$
- $b_5 = -2$