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B-B2

import numpy as np

```
def mp_neuron(inputs, weights, threshold):  
    weighted_sum = np.dot(inputs, weights)  
    output = 1 if weighted_sum >= threshold else 0  
    return output  
  
def and_not(x1, x2):  
    weights = [1,-1]  
    threshold = 1  
    inputs = np.array([x1, x2])  
    output = mp_neuron(inputs, weights, threshold)  
    return output  
  
# Printing the output in required format  
print("X1 X2 Y")  
print(0, " ", 0, " ", and_not(0, 0))  
print(1, " ", 0, " ", and_not(1, 0))  
print(0, " ", 1, " ", and_not(0, 1))  
print(1, " ", 1, " ", and_not(1, 1))
```

X1	X2	Y
0	0	0
1	0	1
0	1	0
1	1	0