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6.189 Multicore Programming Primer, January (IAP) 2007

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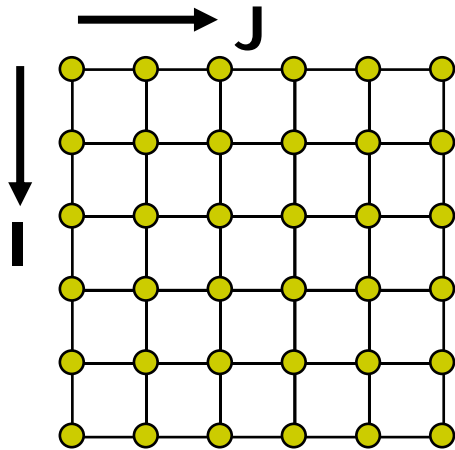
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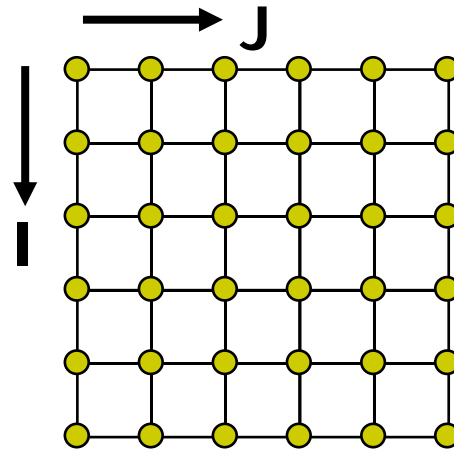
Name: _____

Instructions: For each of the following three loop nets, draw the dependence between the read and the write, and indicate if the dependence is a true or anti dependence.

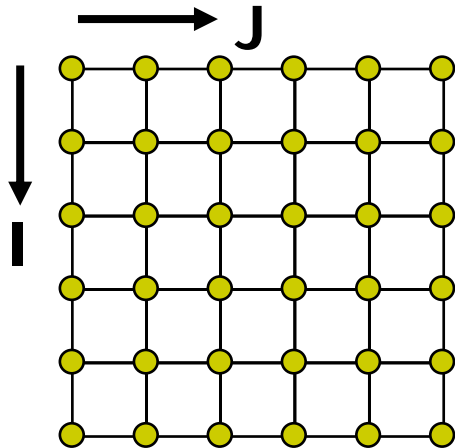
```
#1) FOR I = 1 to n
    FOR J = 1 to n
        A[I, J] = A[I+1, J-1] + 1
```



```
#3) FOR I = 1 to n
    FOR J = 1 to n
        A[I, J] = A[J, I]
```



```
#2) FOR I = 1 to n
    FOR J = 1 to n
        B[J] = B[J-1]
```



For each of the loop nests, indicate if the dependence is a true or anti dependence?

- Loop nest #1:
- Loop nest #2:
- Loop nest #3: