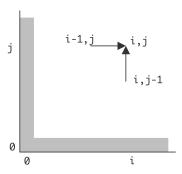
Quiz

You name:

Consider the following code:

```
for i in [1:N]:
    x[0,i] = some_function_of(i)
    x[i,0] = some_function_of(i)

for i in [1:N]:
    for j in [1:N]:
        sum = 0
        x[i,j] = x[i-1,j]+x[i,j-1]
```



Answer the following questions about the double i, j loop:

- 1. Are the iterations of the inner loop independent, that is, could they be executed simultaneously?
- 2. Are the iterations of the outer loop independent?
- 3. If x[1,1] is known, show that x[2,1] and x[1,2] can be computed independently.
- 4. Does this give you an idea for a parallelization strategy?