

```

void foo(int *x, int *y, int n, int m) {
    int a[2048], b[2048];

    #pragma acc kernels copy(x[0:2048], y[0:2048], a, b)
    {
        // No data dependence
        #pragma acc loop
        for (int i=0; i<2047; i++) {
            a[i] = b[i+1] + 1;
        }

        // Data dependence
        #pragma acc loop
        for (int j=0; j<2047; j++) {
            a[j] = a[j+1] + 1;
        }

        // No data dependence if x[] is not aliased with y[]
        #pragma acc loop
        for (int k=0; k<2047; k++) {
            x[k] = y[k+1] + 1;
        }

        // No data dependence if n>=m
        #pragma acc loop
        for (int l=0; l<n; l++) {
            x[l] = x[l+n] + 1;
        }
    }
}

```