

Worksheet #32: UPC data distributions

Name: _____ Netid: _____

In the following example (which is similar to slide 17, but without the blocking), assume that each UPC array is distributed by default across threads with a cyclic distribution. In the space below, a) identify an iteration of the `upc_forall` construct for which all array accesses are local, and b) an iteration for which all array accesses are non-local (remote). You can assume any values for `THREADS` in the 2...99 range that you choose for parts a) and b). Explain your answer in each case.

```
shared int a[100], b[100], c[100];  
int i;  
upc_forall (i=0; i<100; i++; (i*THREADS)/100)  
    a[i] = b[i] * c[i];
```

