```c
// Initialize the memory on the host
float *a, *b, *c;

// Allocate host memory
a = (float*)malloc(sizeof(float) * (N*N));
b = (float*)malloc(sizeof(float) * (N*N));
c = (float*)malloc(sizeof(float) * (N*N));

// Initialize the memory on the device
float *d_a, *d_b, *d_c;

// Allocate device memory
cudaMalloc((void**)&d_a, sizeof(float) * (N*N));
cudaMalloc((void**)&d_b, sizeof(float) * (N*N));
cudaMalloc((void**)&d_c, sizeof(float) * (N*N));
```