#include<iostream>

#include<systemc.h>

using namespace std;

//or else we can do

template <int N=1>

SC\_MODULE(module)

{

sc\_port<sc\_fifo\_out\_if<int> > port[N];

SC\_CTOR(module) {

SC\_THREAD(process);

}

void process() {

for (int i = 0; i < N;i++) {

port[i]->write(2);

cout << "WRITE TO PORT" << i << endl;

wait(1, SC\_NS);

}

}

};

int sc\_main(int argc, char\* argv[])

{

module<3> m("m");

sc\_fifo<int> f1, f2, f3;

m.port[0].bind(f1);

m.port[1].bind(f2);

m.port[2].bind(f3);

sc\_start(sc\_time(20, SC\_NS));

return 0;

}