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// Filename      : tlm.sv
// Author       : A.G.Raja
// License      : GPL
// Website      : http://agraja.wordpress.com

module producer_consumer;

virtual class put_if;
    virtual task put(int val);
    endtask
endclass

class producer;
    put_if put_port;
    task run;
        int i;
        for(i=0;i<10;i++) put_port.put(i);
    endtask
endclass

class consumer extends put_if;
    task put(int val);
        $display("Consumer receiving ",val);
    endtask
endclass

producer p;
consumer c;

initial begin
    p = new;
    c = new;
    p.put_port = c;
    p.run;
end
endmodule
```