

## Answer

We do not want to put a fairness requirement on  $p2a$  because we do not want to require the producer ever to receive a message. (If we put a “-” after the label  $p1$ , so there is no fairness requirement on  $p1$ , then it doesn’t matter if we have a fairness requirement on  $p2a$  because the producer can halt at  $p1$ .) We need to require fairness of  $p2b$  because, once  $\overline{buf}$  and  $\overline{in}$  have changed, implementing liveness of  $FGBBuf$  requires that the process execute  $p2b$  and then  $p3$ .

[CLOSE](#)