

# ECE 153a - Homework 7

1. Given the synchronous data flow system pictured below:

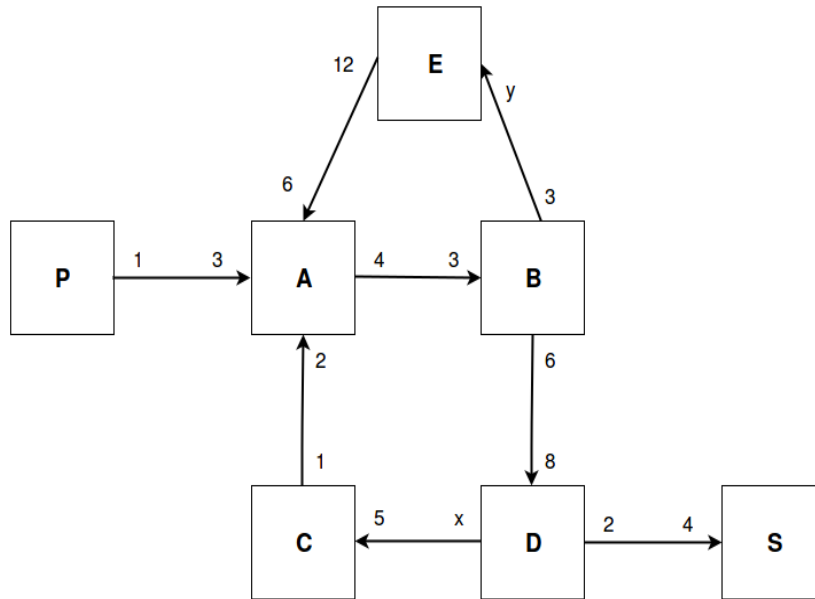


Figure 1

- (a) Find  $x$  and  $y$  such that this system is consistent.
- (b) Find a minimum length schedule for this system. Specify how many buffers this schedule needs and where they should be placed.
2. Read Chapter 6 of Lee and Seshia, answers problems 8, 9(part a and b only) and 10.