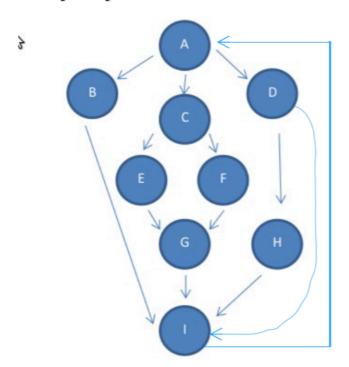
## Exercise 1

Make the following precedence graph using the minimum number of pipes in order to synchronize:

- 1. processes;
- 2. cyclic processes;

## Each circle represents a separate process.



Hint

The precedence graph described above is very similar to the one described in the laboratory 11, just some modification, to the previous program you wrote, are needed to complete this exercise.