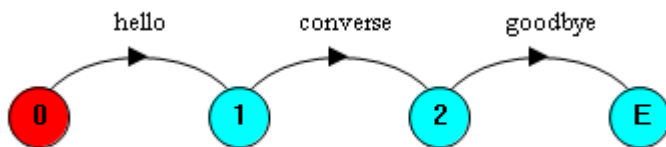


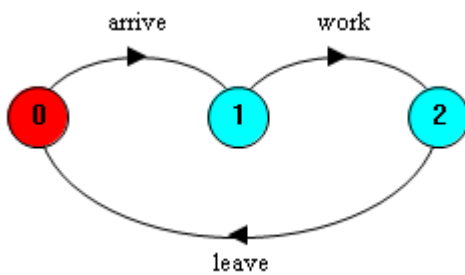
Упражнение No 2: Моделиране на последователни процеси чрез FSP нотация

Задача 1. Напишете на FSP процесите, които отговарят на следните диаграми. Проверете ги, като ги въведете в LTSA.

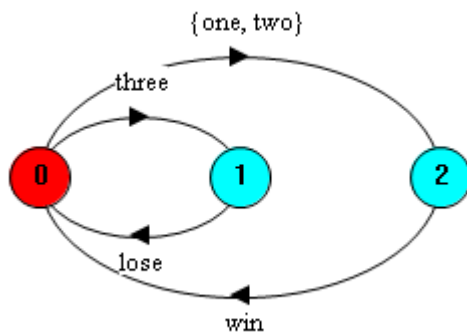
A) MEETING



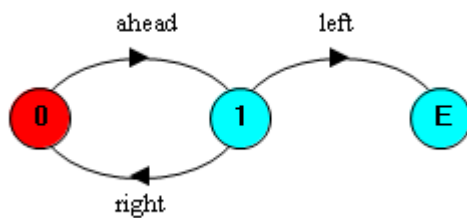
B) JOB



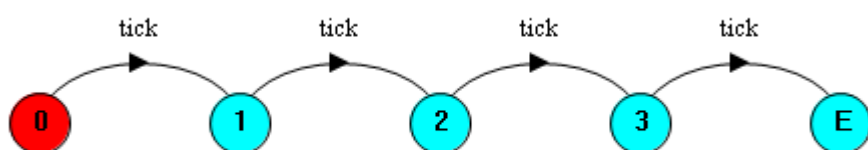
B) GAME



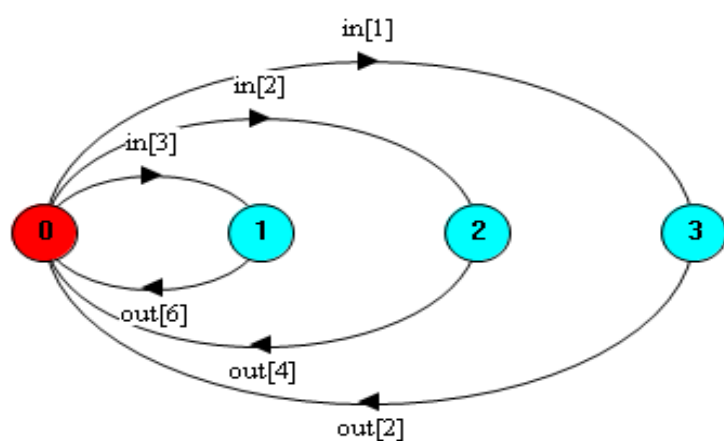
Г) MOVE



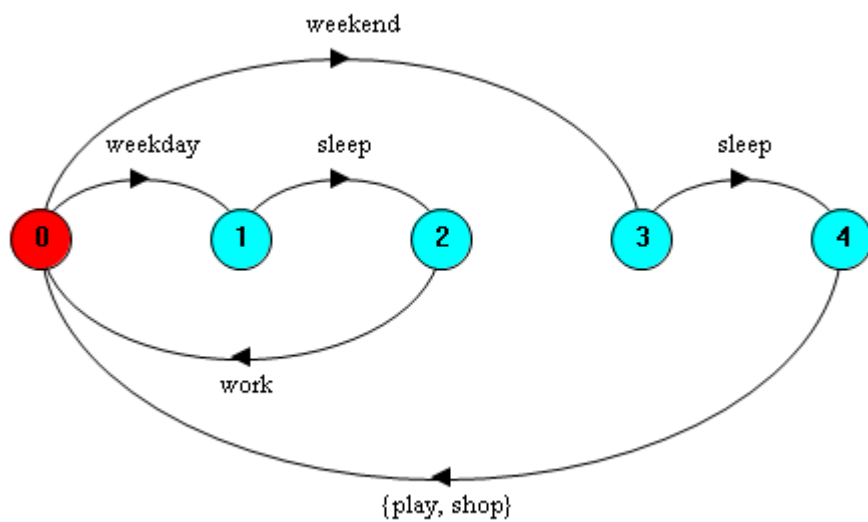
Д) FOURTICK



Е) DOUBLE



Ж) PERSON



Задача 2.

A miniature portable FM radio has three controls. An **on/off** switch turns the device on and off. Tuning is controlled by two buttons **scan** and **reset** which operate as follows. When the radio is turn on or **reset** is pressed, the radio is turned to top frequency of the FM band (108 MHz). When **scan** is pressed, the radio scans toward the bottom of the band (88 MHz). It stops scanning when it locks on to a station or it reaches the bottom (**end**). If the radio is currently tuned to a station and **scan** is pressed then it starts to scan from the frequency of that station towards the bottom. Similarly, when **reset** is pressed the receiver tunes to the top. Using the alphabet {**on, off, scan, reset, lock, end**}, model the FM radio as an FSP process RADIO.

Допълнителни задачи

Задача 3. Двунивов цифров елемент получава последователност от тригерен входен сигнал (*trigger*), които алтернативно превключва елемента т.е. реализира изход [0] и [1]. Моделирайте BISTABLE чрез FSP и проверете дали реализира пътеката:

trigger -> 1 -> trigger -> 0 -> trigger -> 1 -> trigger -> ...

Задача 4. Датчик измерва нивото (*level*) на водата в резервоар. Нивото (в началото е 5) се измерва в единици 0...9. Изходът на датчика е *low*, когато нивото е по-малко от 2, *high* – ако е по-виско от 8 и *normal* – в останалите случаи. Моделирайте процеса SENSOR на измерване чрез FSP.