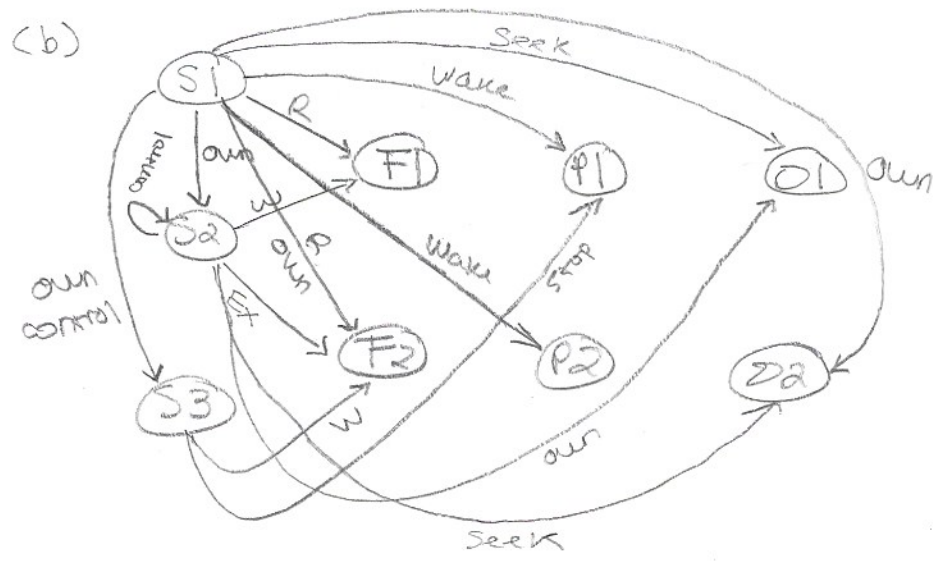
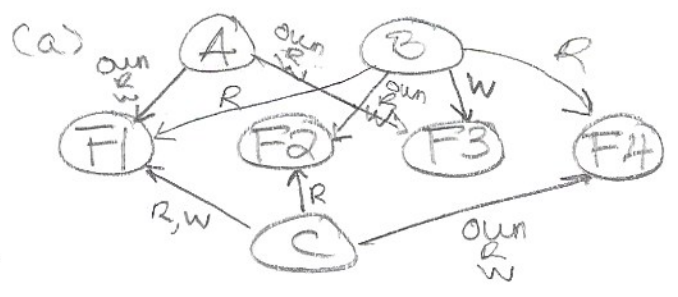


① DAC



- ② (a) ACL
 (b) ACL
 (c) Capability
 (d) Capability

- ③ (a) Access Control Lists can be described based on "something you have" b/c access control lists are lists of access control entries (ACE) and each ACE identifies a trustee and the trustee's access rights. Basically, an ACE defines a user/admin and his/her rights for a particular file or data.
- (b) Encryption can be described based on "something you have" b/c encryption is a process of converting sensitive info into an unreadable format and those who have the correct decryption key can view this info.

- ④ (a) The subject from the protection domain and its rights and privileges would make up each ACE in the ACL.
- (b) The capability would be used to enter each domain and users w/ that specific capability are allowed to enter.

⑤ Strengths vs. Weaknesses of Access Matrix using Capabilities + Domains

Strengths

- Control from storing access rights w/ each object
- Being able to change the access rights.

Weaknesses

- A lot of work to check to see if the requesting domain is found in the list.

⑥ (a) Machine Learning (ML) algorithms can be used for image recognition to filter out these physiological and behavioural traits. Many of these algorithms are implemented using neural networks, gradient descent, etc. These algorithms would be used to convert predicted probabilities into predictions.

(b) ROC Curve is created by plotting the true positive rate (TPR) vs. the false positive rate (FPR). The TPR is also known as the probability of detection. The FPR is also known as the probability of false alarm. This can also be thought of as as a plot of the power as a function of the Type I error and the decision rule.