Assignment #1

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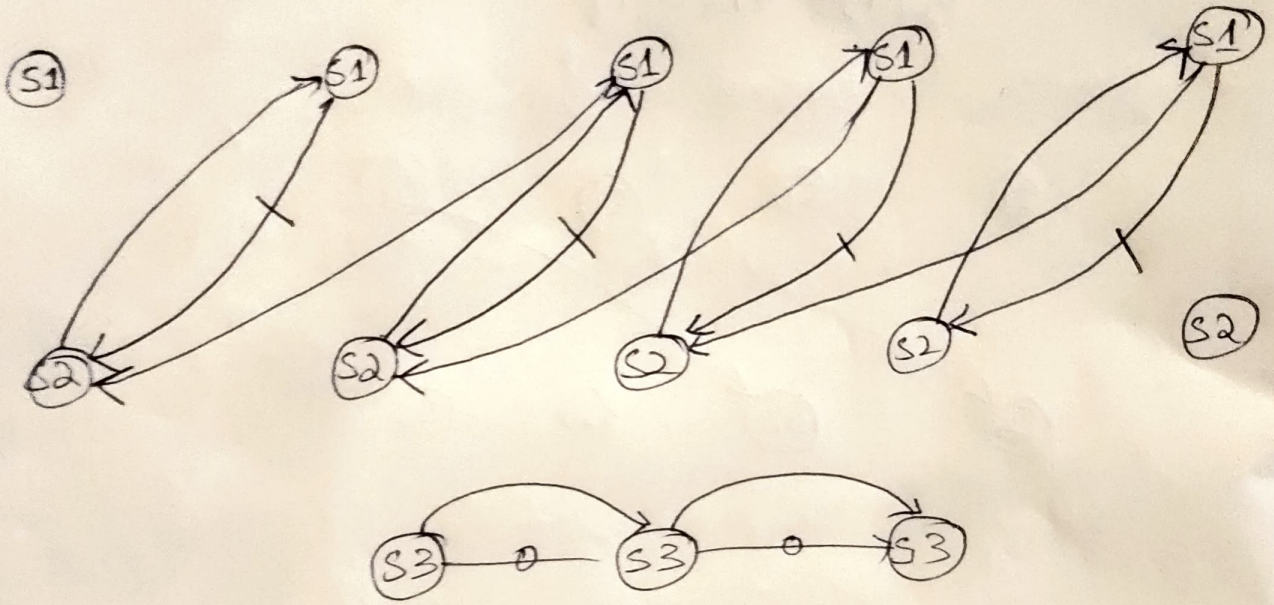
SP23-BCS-005

(a)



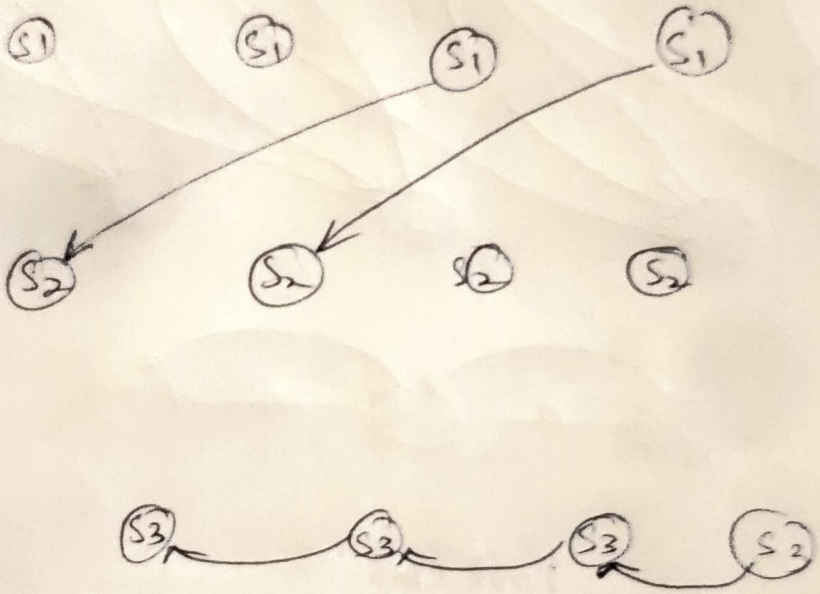
Part (b)

```
For (i=1; i<=50; i++) {
    Anew[i] = B(i-1] + c[i]
}
For (i=1 ; i<=50 ; i++){
    Bnew[i] = Anew[i+2] + c[i]
}

sum =0
for (i=1 ; i<=50 ; i++) {
    sum += c[i];
}
```

S = Sum

```
For( i=1 ; i<=50 ; i++) {
   A[i] = Anew[i]
   B[i] = Bnew[i]
                    }
```



Part c

```
#pragma amp parralled
    #pragma amp Fob
    for(i=1 ; i<=50 ; i++){
      Anew[i] = [i-1] + C[i];

    #pragma amp for
    for(int i = 1 ; i<=50 ; i++){
    Bnew[i] = Anew[i+2]+C[i];
    }
    int sum = 0;
#pragma amp for reduction(+: sum)
  for(int i=1 ; i<=50 ; i++){
      sum+ = C[i];
    }
  #pragma amp single{
      S = sum;
    }
#pragma amp For
    For(int i=1 ; i<=50 ; i++){
    A[i] = Anew[i];
    B[i] = Bnew[i];
    }
}
```