

Distributed Algorithms CPSC-561

Assignment 2

Michael McCulloch

1 CAS

a)

```
public class CAS_FROM_SCAS {  
    private SCAS scas;  
    public boolean CAS(Object e, Object v){  
        scas.scas(e, v);  
        Object after = scas.read();  
        return (after == v);  
    }  
    public Object read() {  
        return scas.read();  
    }  
}
```

b)

```
public class SCAS_FROM_CAS {  
    private CAS cas;  
    public Object SCAS(Object e, Object v){  
        Object original = cas.read();  
        cas.cas(e, v);  
        return original;  
    }  
    public Object read() {  
        return cas.read();  
    }  
}
```

2 Consensus

3 SRSW