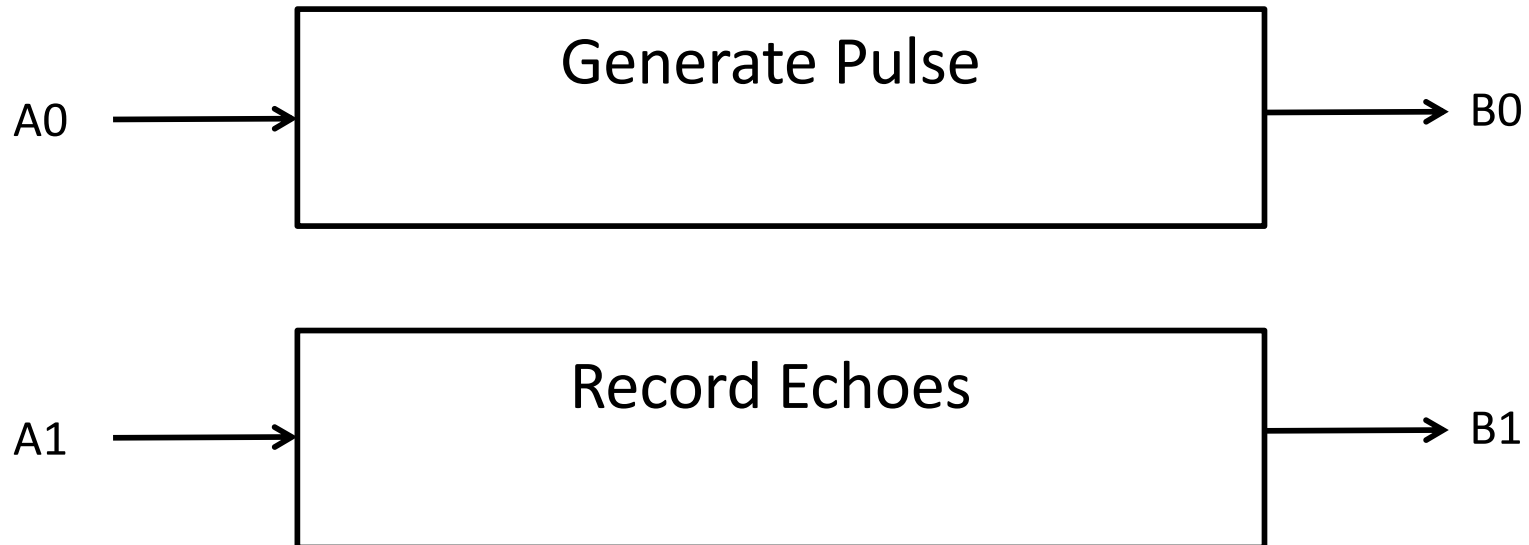


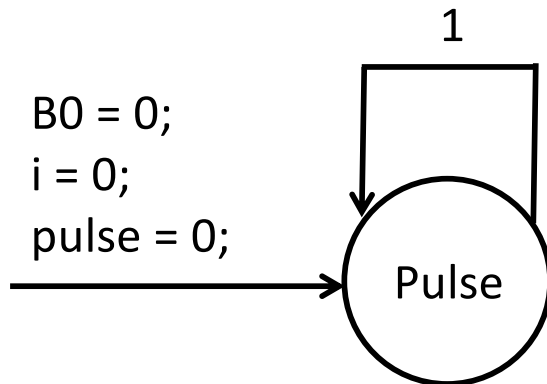
# SONAR System Solution

# Exercise #1 Solution



# Generate Pulse

unsigned char i, pulse;  
Period = 200 ms



B0 = 0;  
i = 0;  
pulse = 0;

```
if( !A0 ) {  
    B0 = 0;  
    i = 0;  
}  
else {  
    B0 = pulse ? 1 : 0;  
    if( ++i == 5 ) {  
        i = 0;  
        pulse = !pulse;  
    }  
}
```

# Record Echoes

unsigned char echoes;  
Period = 200 ms;

