

EXTRA CREDIT (3 points) – Convert the following C-like code to a high-level FSM. (Note: int variable types are considered to be 32-bits)

Inputs: bit start
Output: int result

```
while(1){
    result = 0;
    while(!start);

    for(int i=0; i<10; i++){
        for(int j=0; j<10; j++){
            result = (i * j) + j;
        }
    }
    return result;
}
```

input: start (bit)
output: result (32 bits)
local reg: i, j (32 bits)

