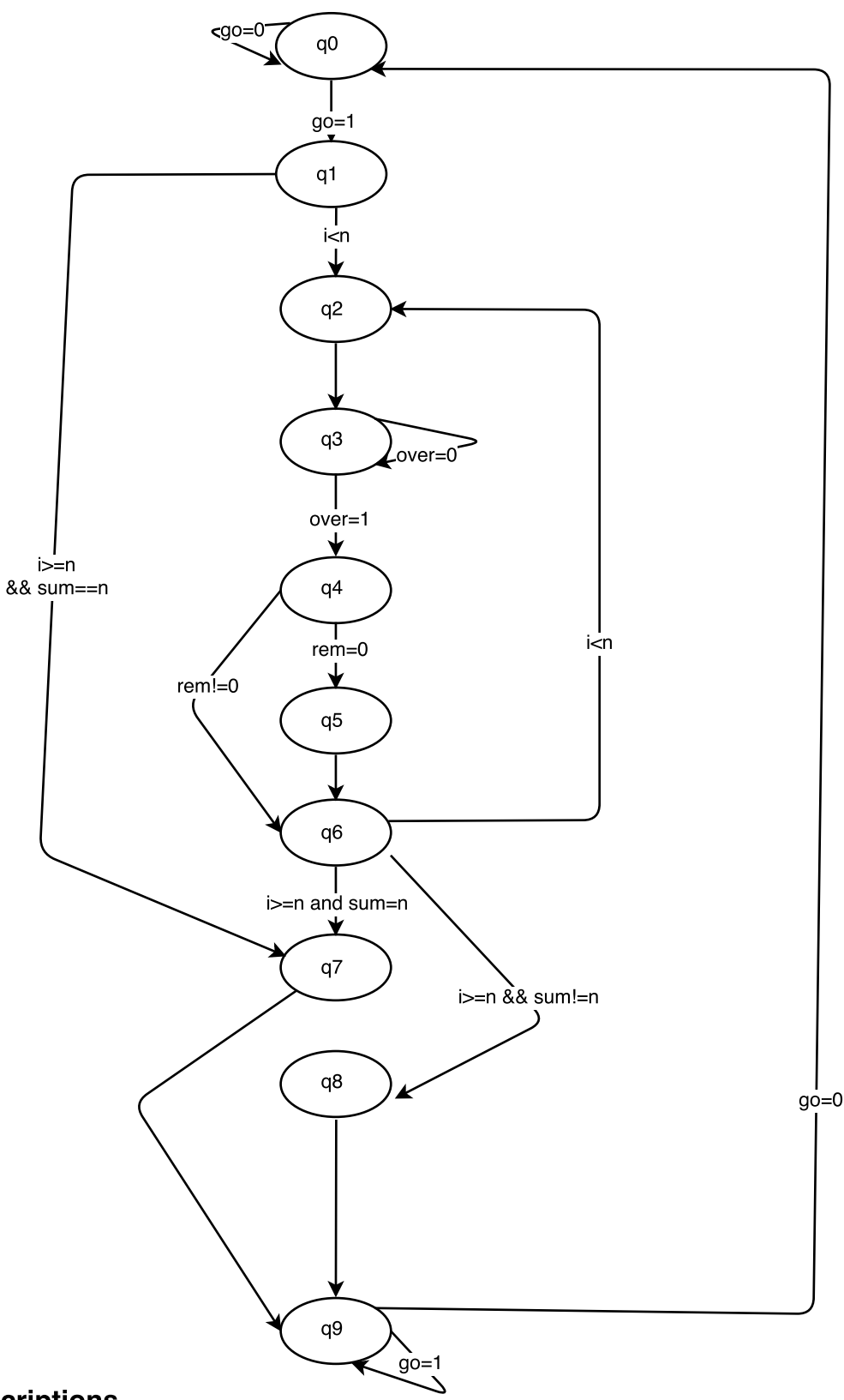# CONTROLLER FSM DIAGRAMS

Group-4
Group Members:
Ashrujit Ghoshal:14CS10060
Sayan Ghosh:14CS10061

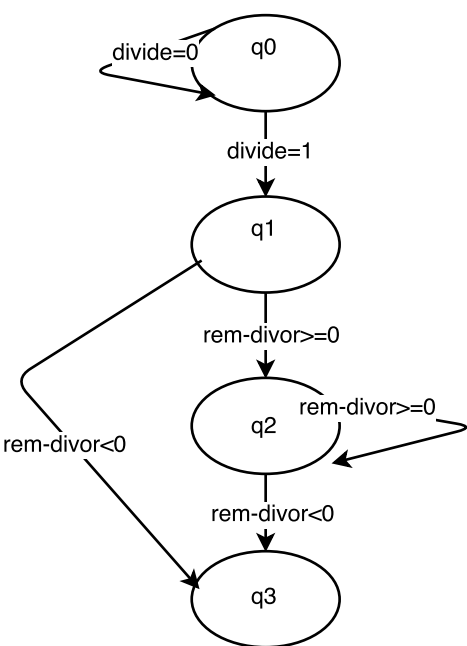**Controller FSM for isPerfect**

State Descriptions
q0:load N
q1:sum<=0
    i<=1
q2:dividend<=n
    divisor<=i
    divide<=1
q3:divide<=1
q4:divide<=0
q5:sum<=sum+i
q6:i<=i+1
q7:display<=true
q8:display<=false
 q9:over_main<=1

Controller FSM for Divider

State Descriptions:
q0:rem<=dividend
    divor<=divisor
q1:quot<=0
q2:rem<=rem-divor
    quot<=quot+1
q3:over<=1