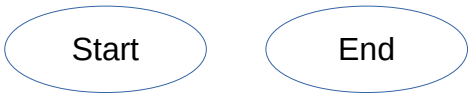
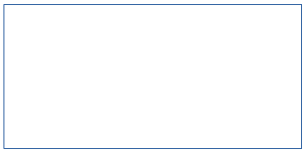
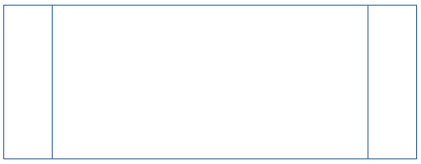
Key



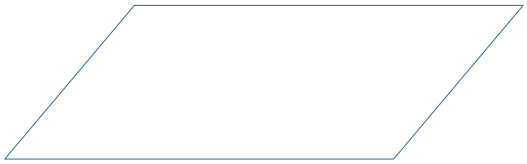
Start and end of the flow chart



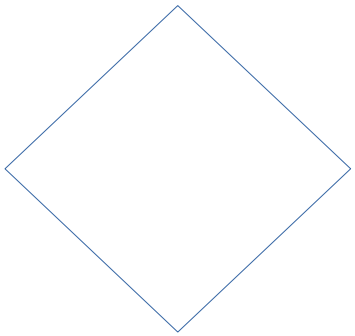
Process



Alternate process
(defined in external flow chart)



User input

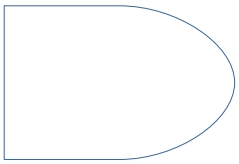


Decision

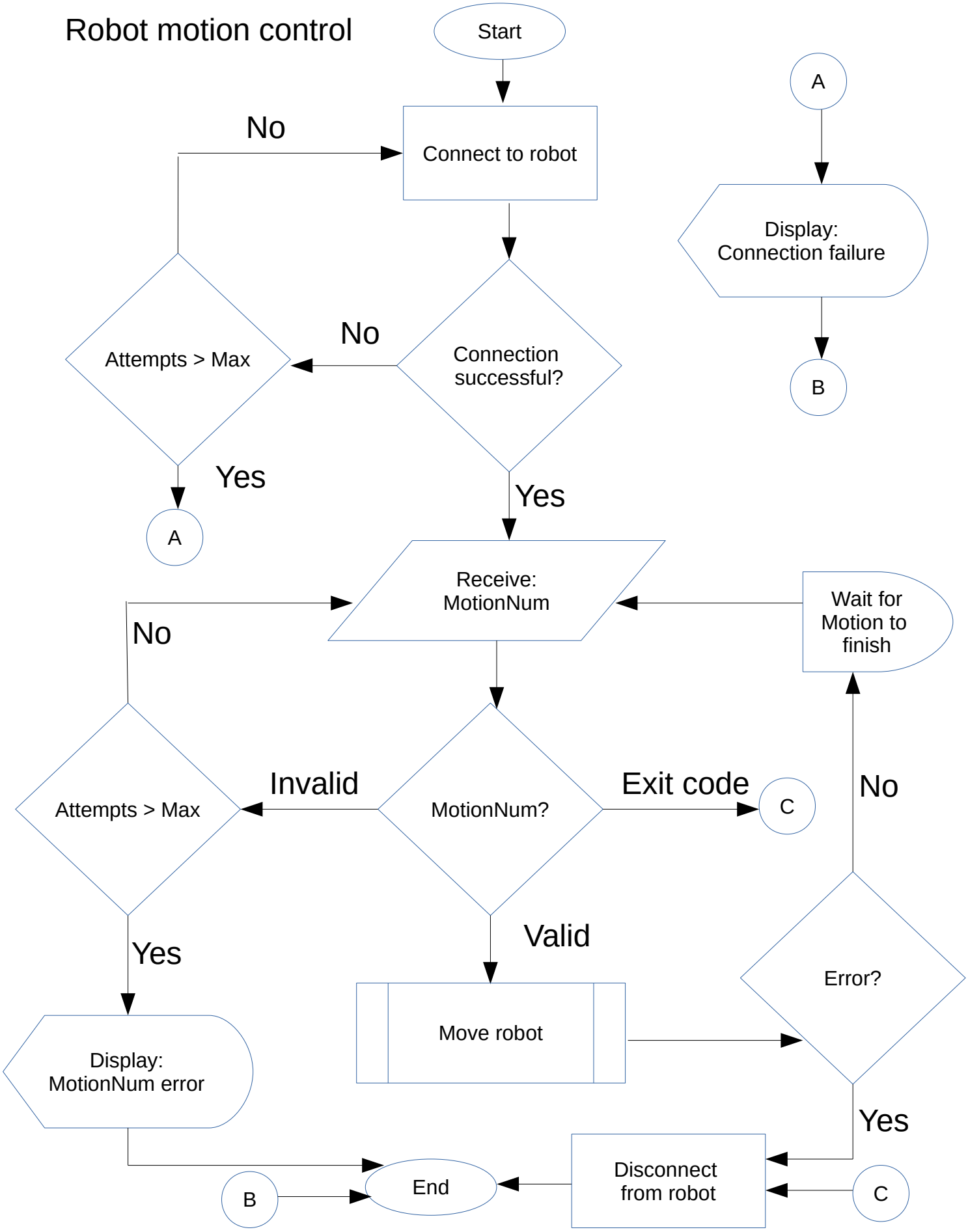
Display

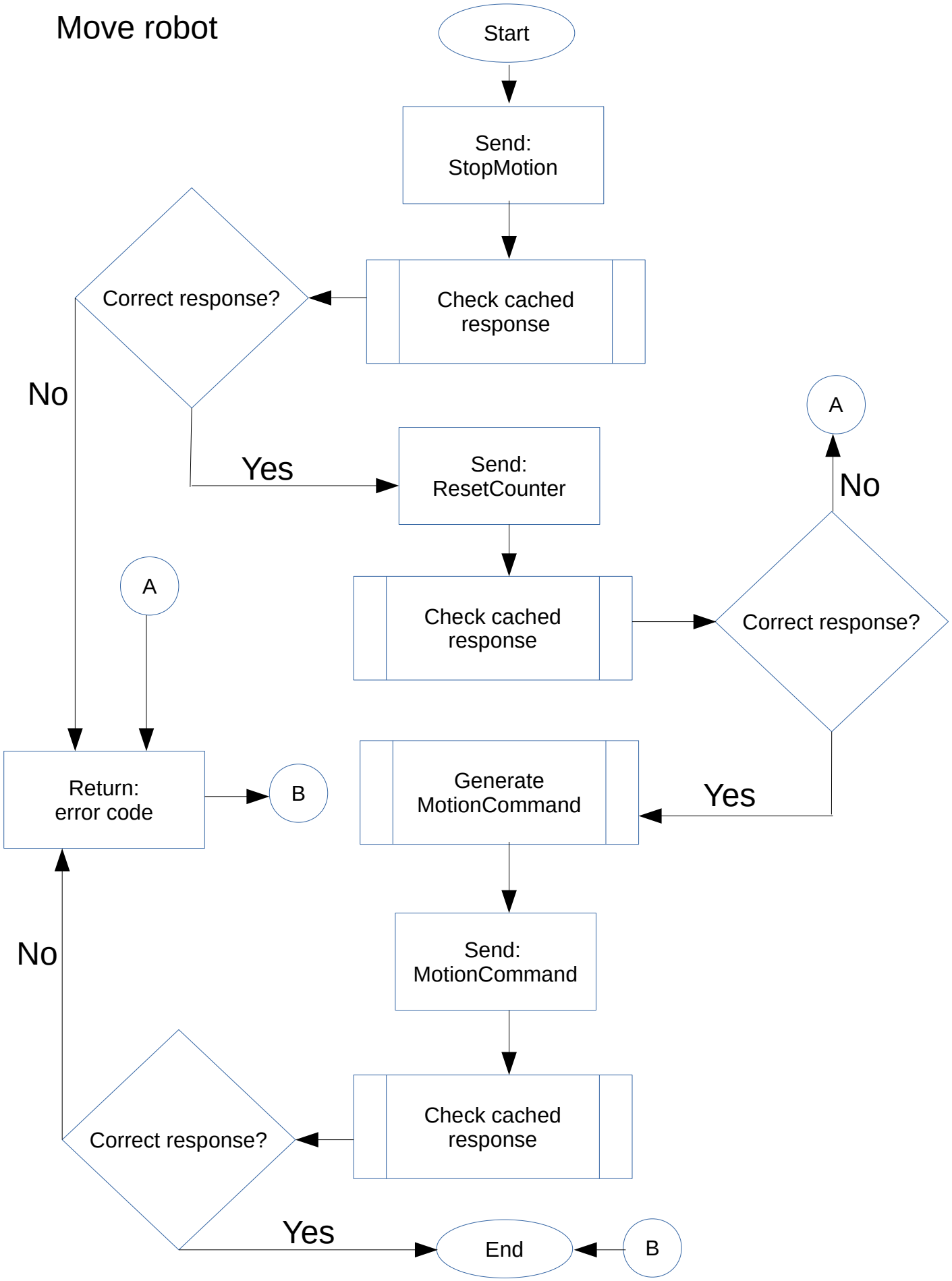
Off page connector

On page connector

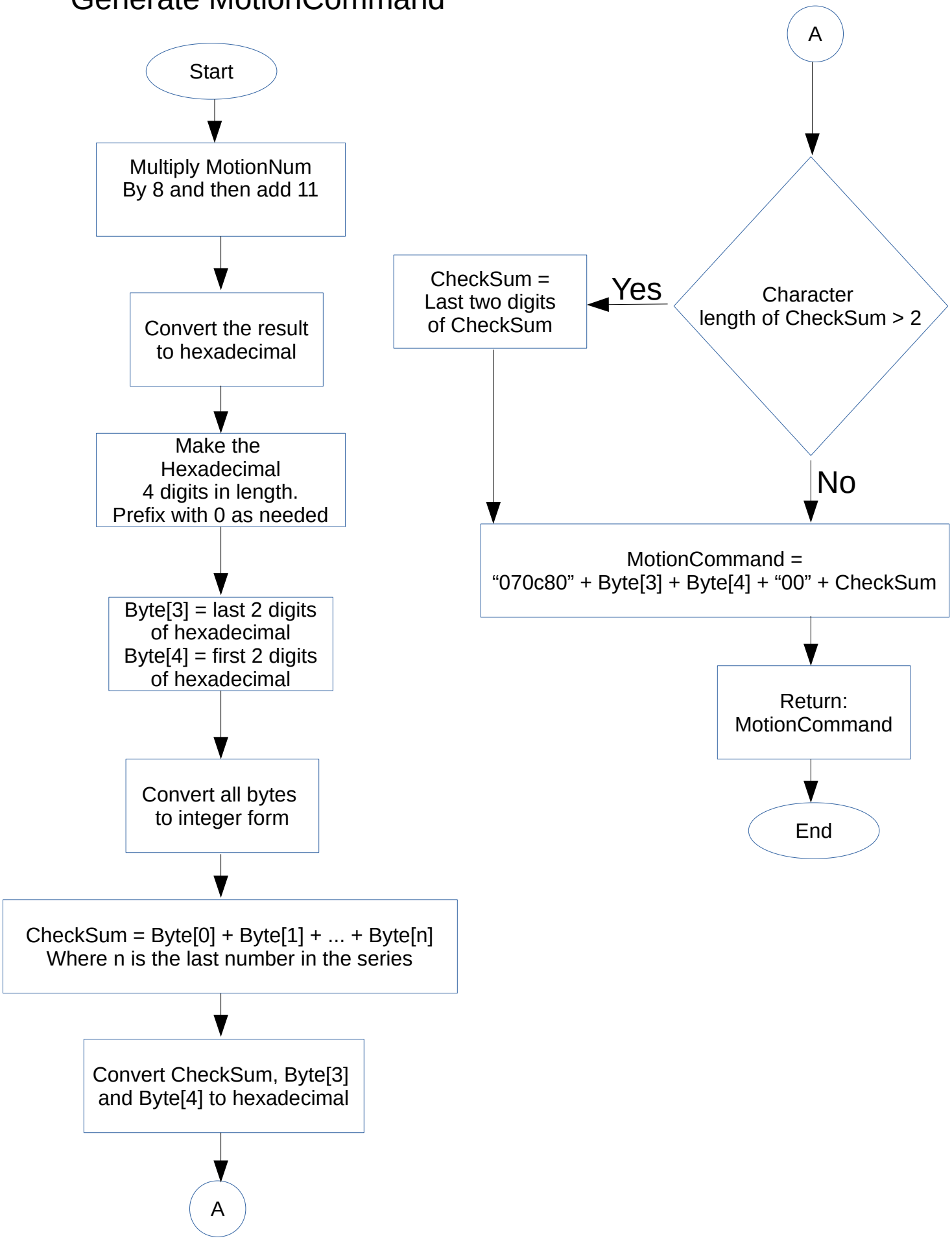


Delay

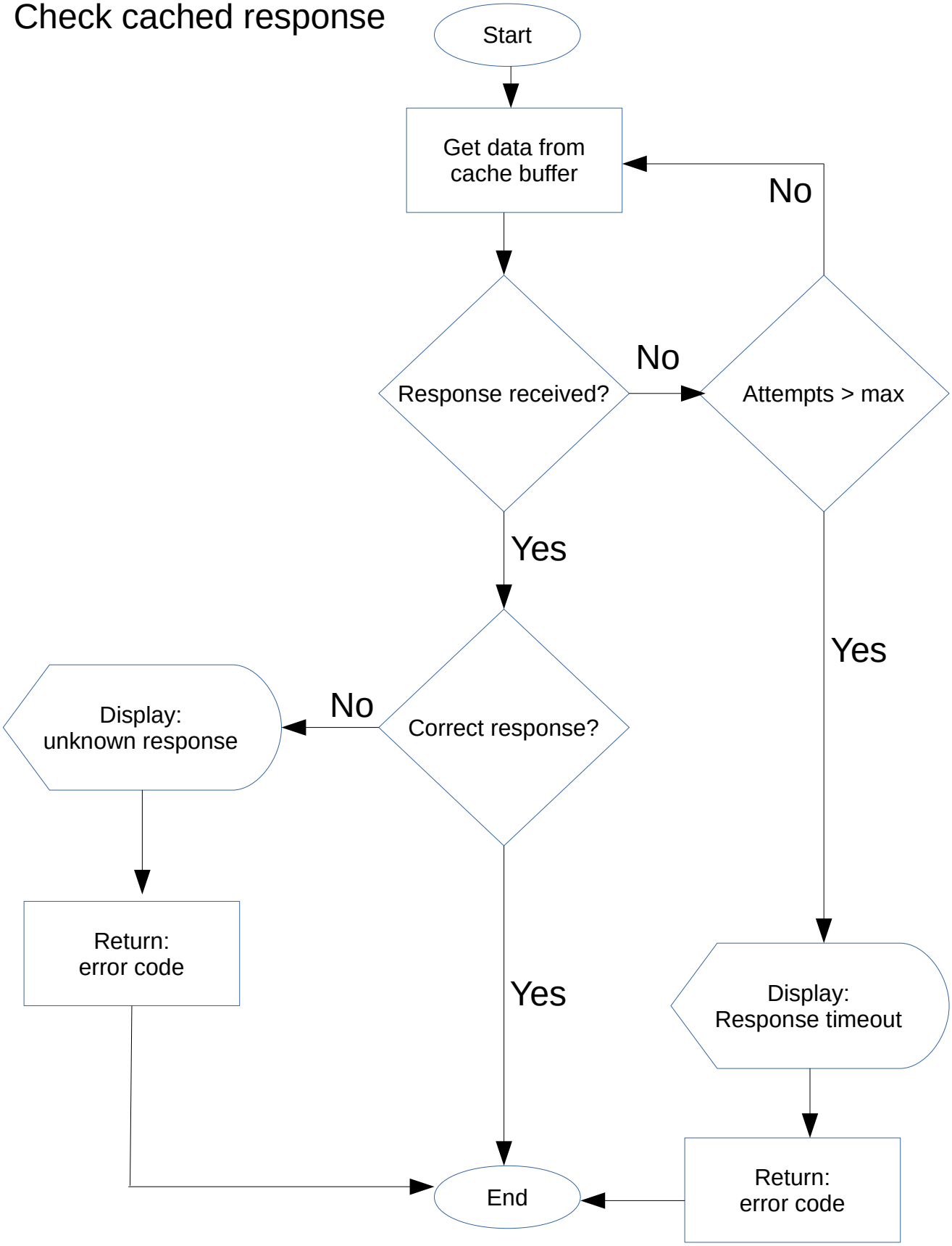
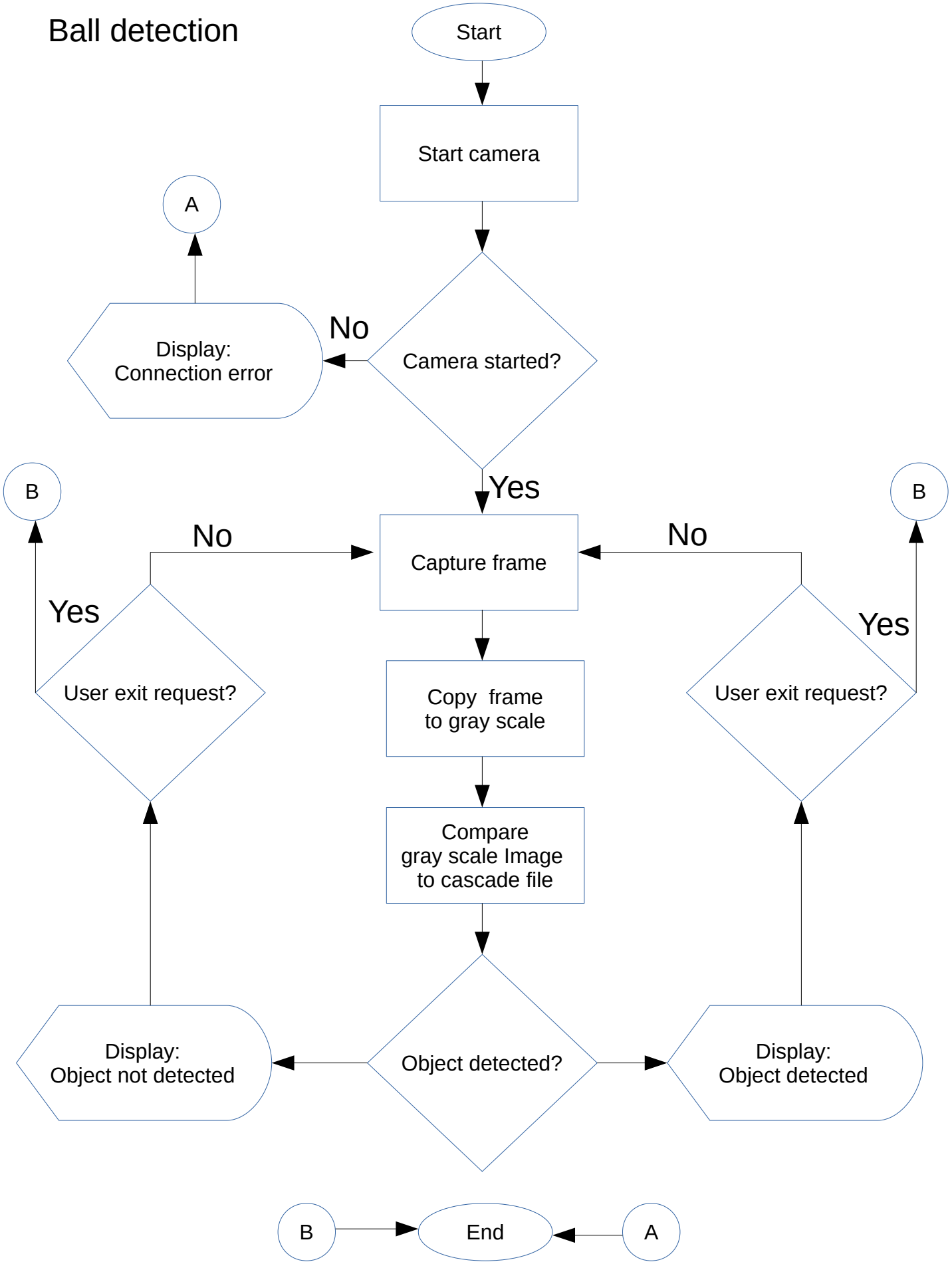

Robot motion control
Start
Connect to robot
No
Connection successful?
No
Attempts > Max
Yes
A
Yes
A
Display: Connection failure
B
Receive: MotionNum
No
MotionNum?
Invalid
Attempts > Max
Exit code
C
Yes
Display: MotionNum error
Valid
Move robot
Wait for Motion to finish
No
Error?
Yes
Disconnect from robot
C
End
B


Move robot
Start
Send:
StopMotion
Check cached
response
Correct response?
No
Yes
Send:
ResetCounter
Check cached
response
Correct response?
A
No
A
Return:
error code
B
Generate
MotionCommand
Yes
Send:
MotionCommand
No
Check cached
response
Correct response?
Yes
End
B

Generate MotionCommand



Check cached response



Ball detection