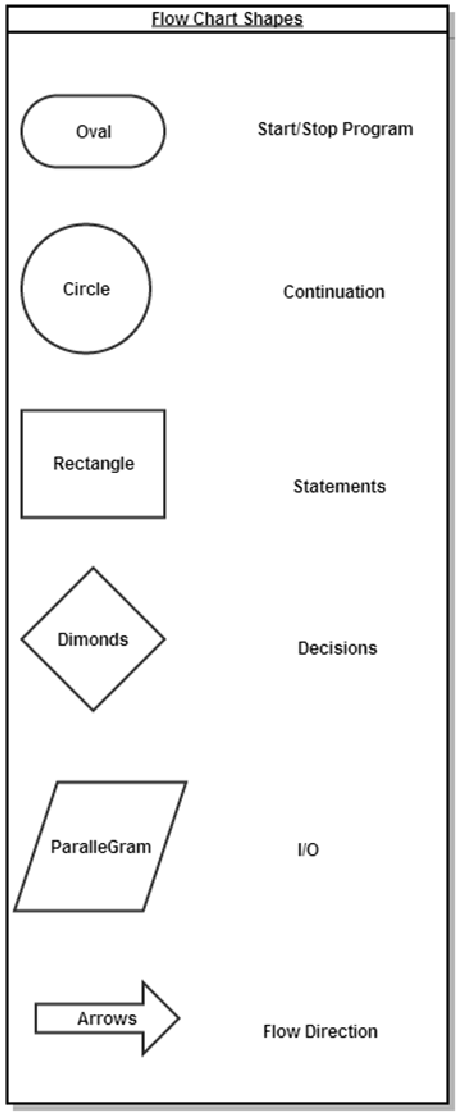
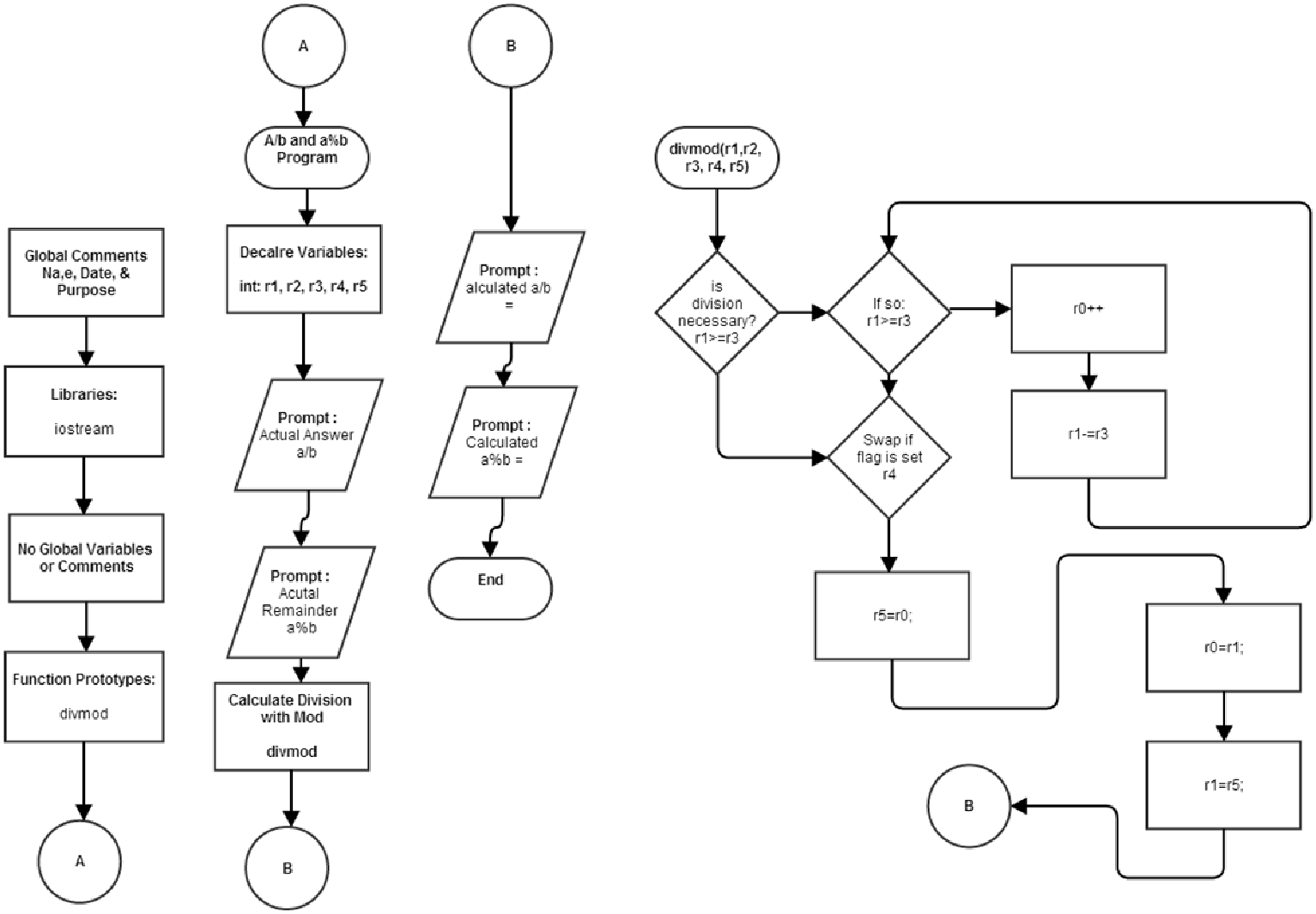
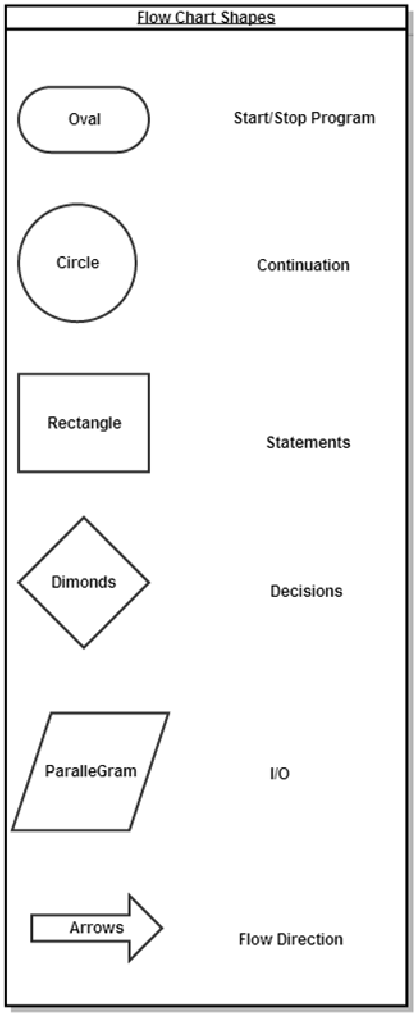
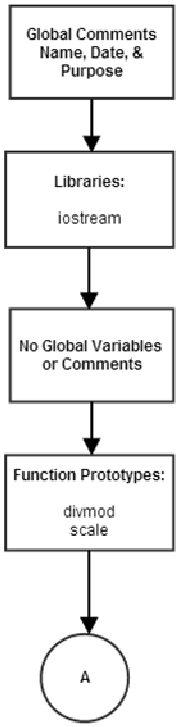
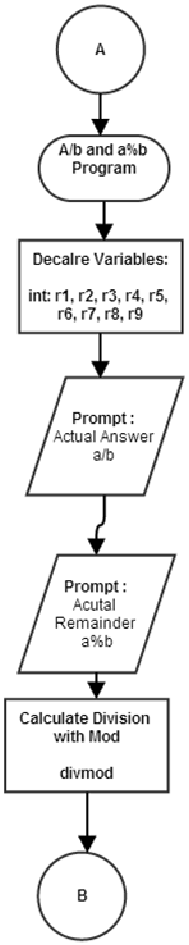
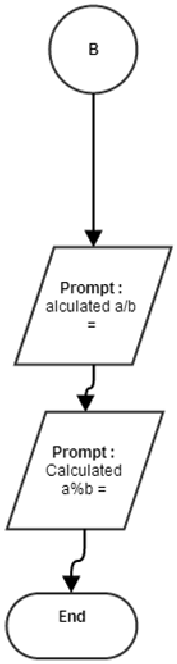

Flow Chart Shapes
Oval
Start/Stop Program
Circle
Continuation
Rectangle
Statements
Dimonds
Decisions
ParalleGram
I/O
Arrows
Flow Direction

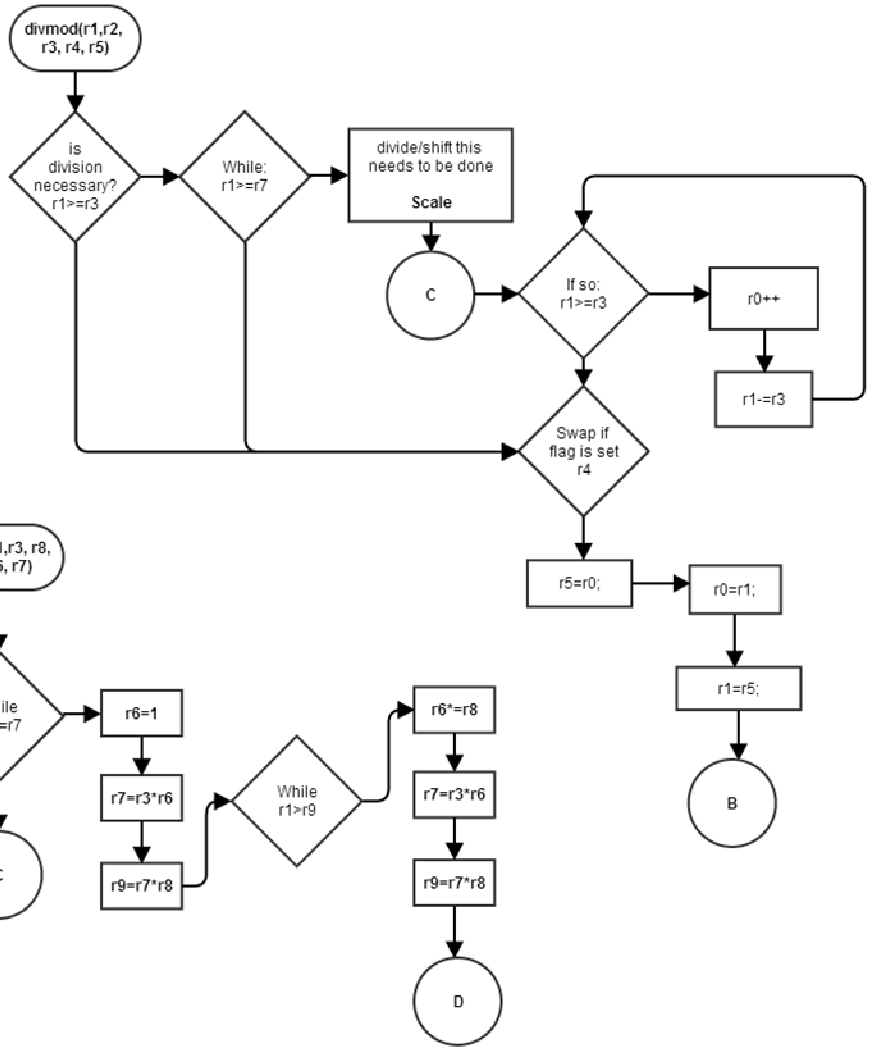

Global Comments Na,e, Date, & Purpose
Libraries:
iostream
No Global Variables or Comments
Function Prototypes:
divmod
A
A
A/b and a%b Program
Decalre Variables:
int: r1, r2, r3, r4, r5
Prompt : Actual Answer a/b
Prompt : Acutal Remainder a%b
Calculate Division with Mod
divmod
B
B
Prompt : alculated a/b =
Prompt : Calculated a%b =
End
divmod(r1,r2, r3, r4, r5)
is division necessary? r1>=r3
If so: r1>=r3
r0++
r1-=r3
Swap if flag is set r4
r5=r0;
r0=r1;
r1=r5;
B


Flow Chart Shapes
Oval
Start/Stop Program
Circle
Continuation
Rectangle
Statements
Dimonds
Decisions
ParalleGram
I/O
Arrows
Flow Direction


Global Comments
Name, Date, &
Purpose
Libraries:
iostream
No Global Variables
or Comments
Function Prototypes:
divmod
scale
A


A
A/b and a%b
Program
Decalre Variables:
int: r1, r2, r3, r4, r5,
r6, r7, r8, r9
Prompt :
Actual Answer
a/b
Prompt :
Acutal
Remainder
a%b
Calculate Division
with Mod
divmod
B


B
Prompt :
alculated a/b
=
Prompt :
Calculated
a%b =
End


divmod(r1,r2,
r3, r4, r5)
is
division
necessary?
r1>=r3
While:
r1>=r7
divide/shift this
needs to be done
Scale
C
If so:
r1>=r3
r0++
r1-=r3
Swap if
flag is set
r4
r5=r0;
r0=r1;
r1=r5;
B
scale(r1,r3, r8,
r9, r6, r7)
D
While
r1>=r7
r6=1
r7=r3*r6
r9=r7*r8
C
While
r1>r9
r6*=r8
r7=r3*r6
r9=r7*r8
D