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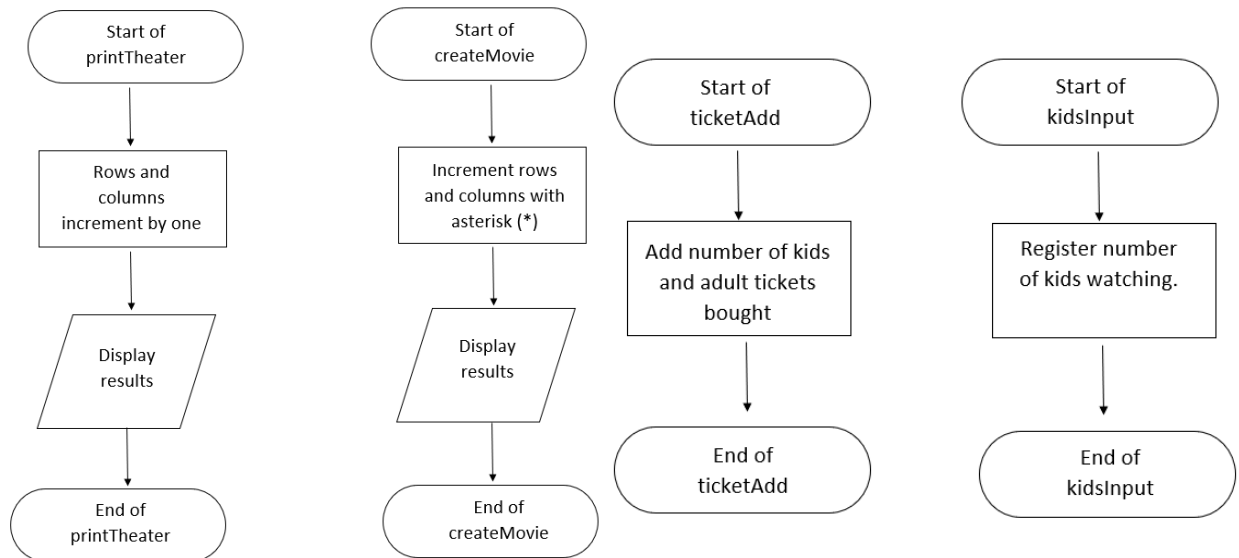
Sbarker1@my.athens.edu

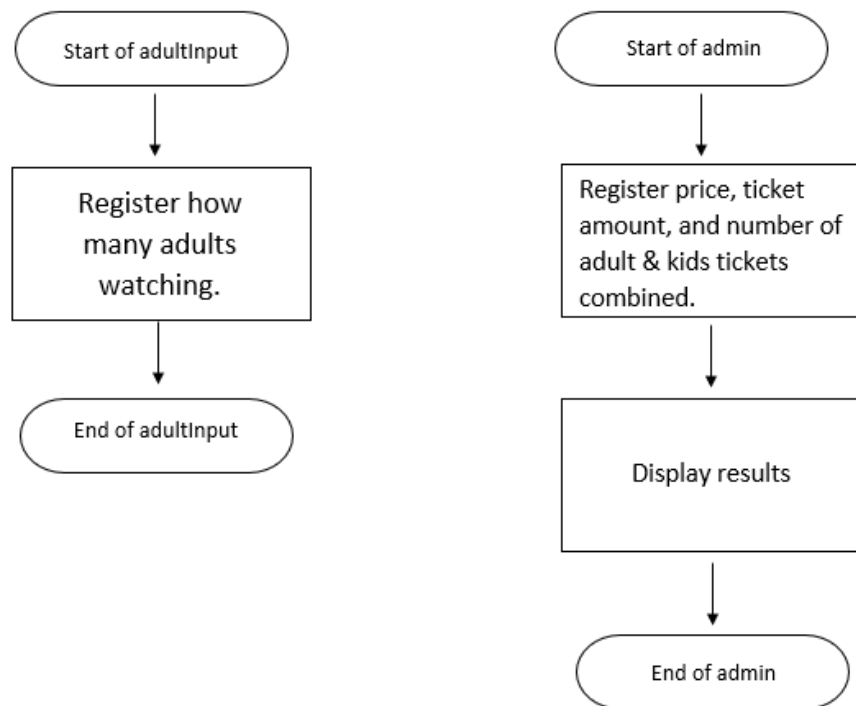
00100768

Project 3

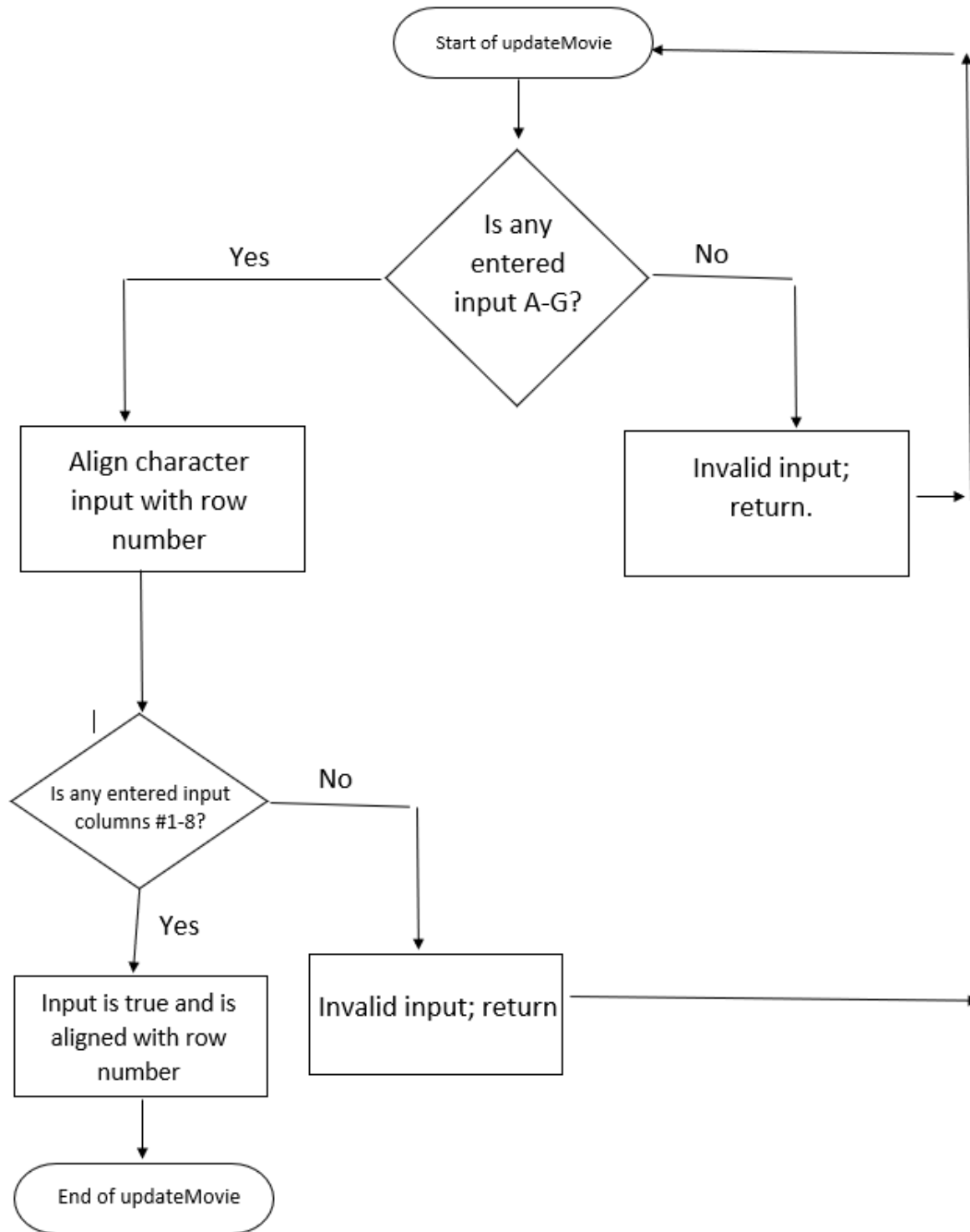
Project 3 Movie Theater Flowchart(s):

“Split” Function Flowcharts (each are separate flowcharts):

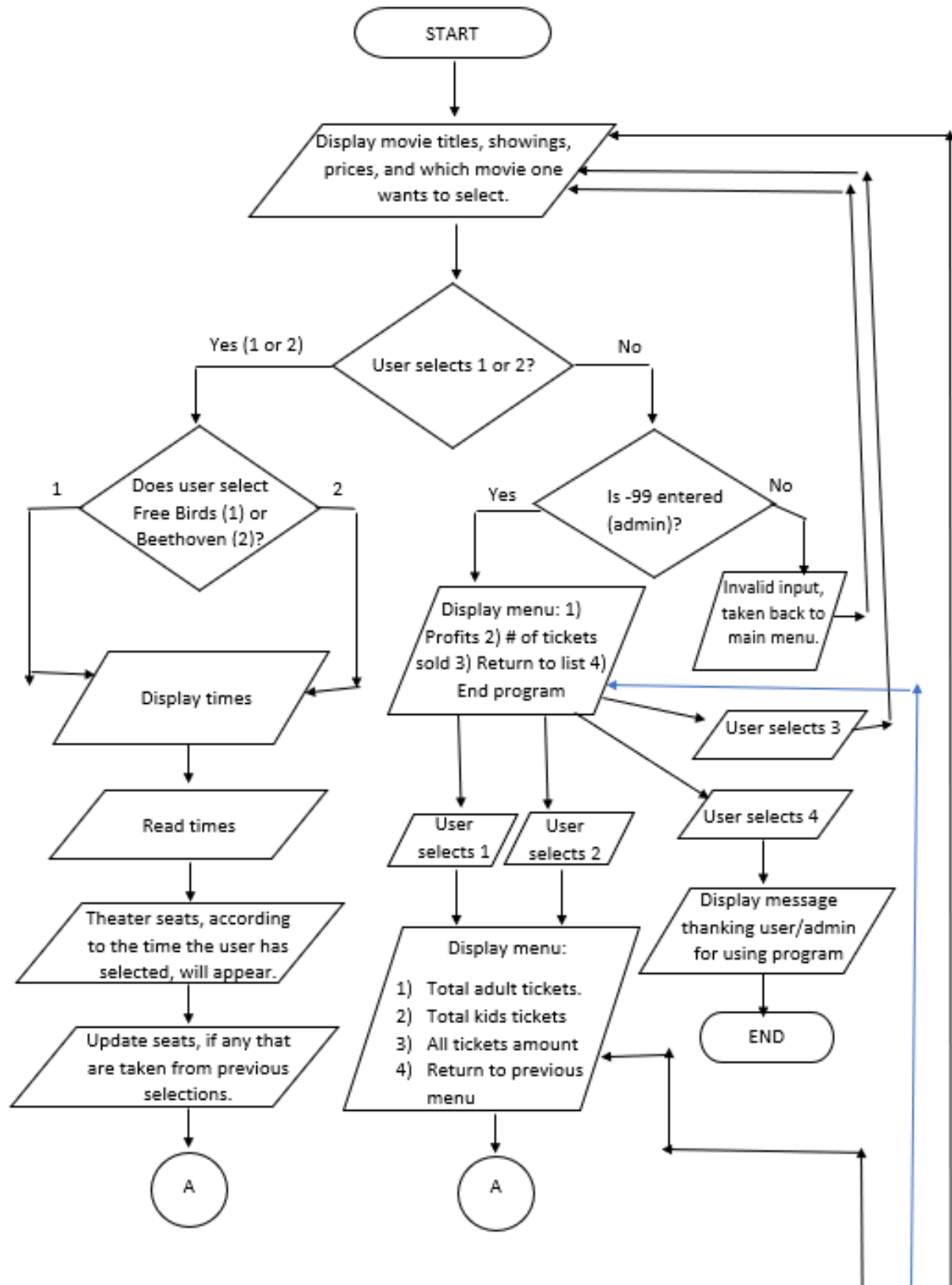


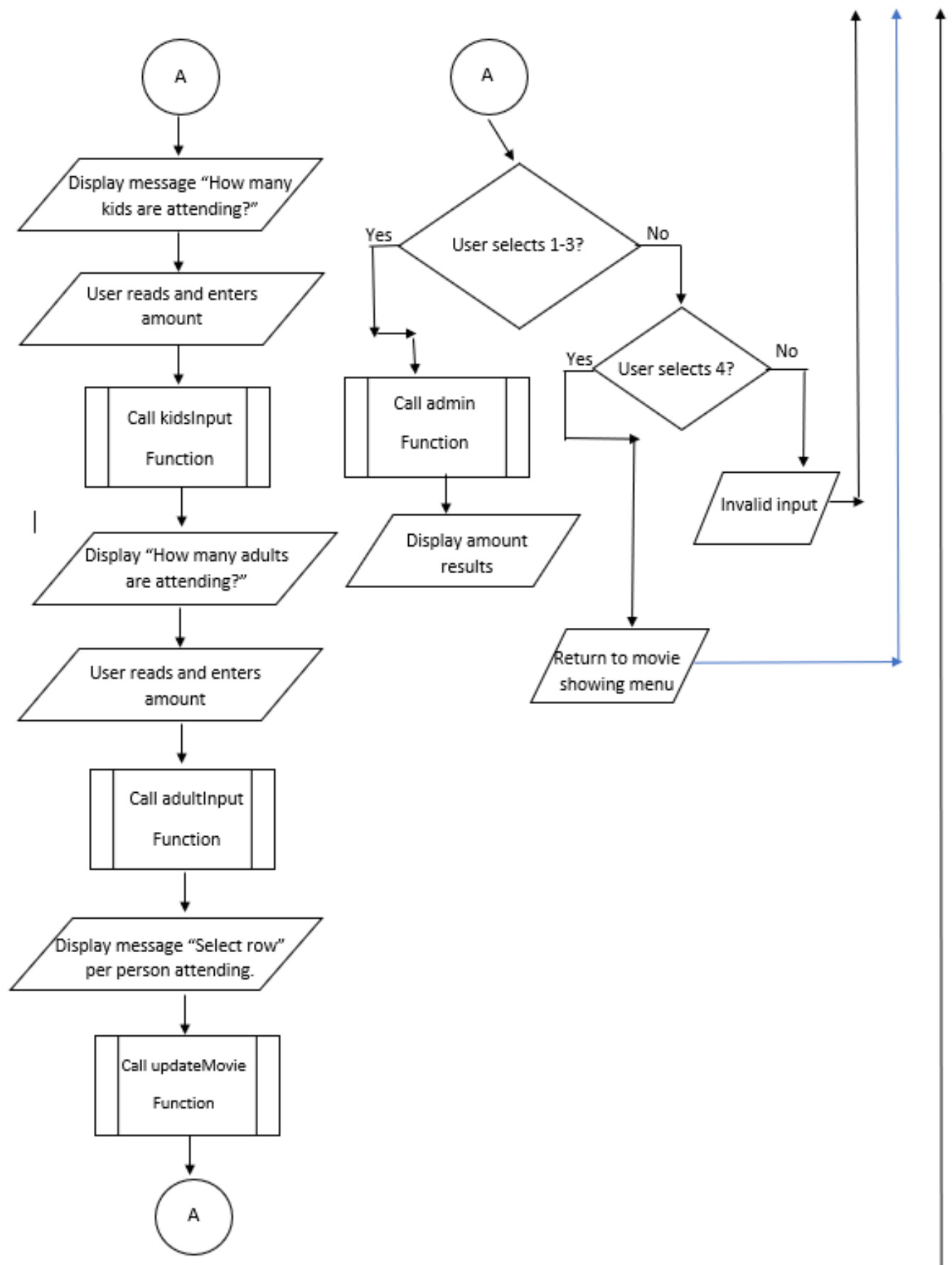


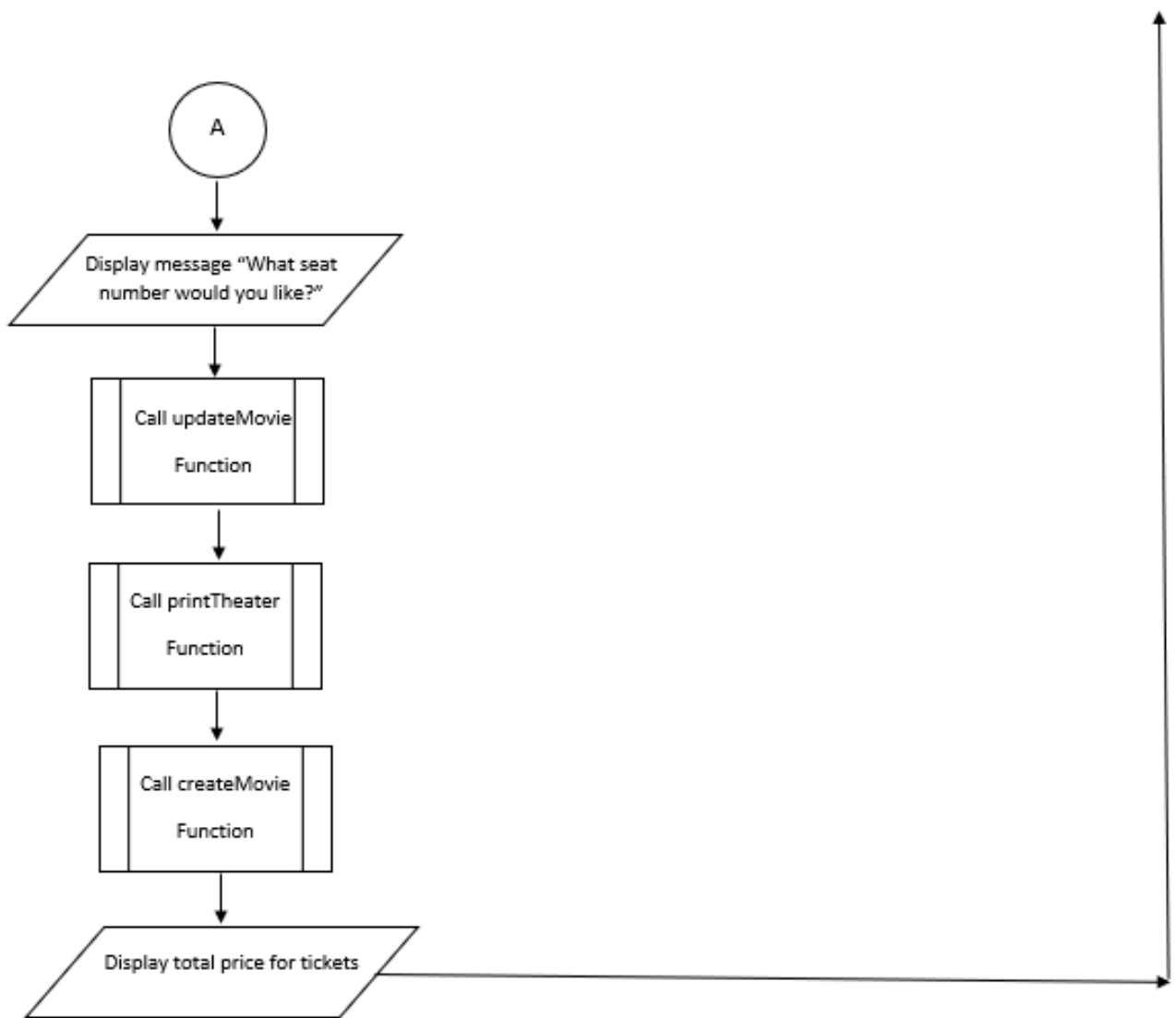
Continue to next page...



"Main" Project Flowchart:







Screenshots on next page...

Project 3 Screenshots:

1st Full Menu Display (User):

```
----- Welcome to the Movie Theater! -----  
  
Now Showing:  
-----  
Free Birds      3:30      6:00  
Bethooven       5:30      7:30  
-----  
  
Prices:  
-----  
Adult Tickets: $6.00 matinee (before 6pm) & $8.00 (evening)  
Child Tickets: $4.00 matinee (before 6pm) & $6.00 (evening)  
-----  
  
Please select 1 if you would like to watch Free Birds  
OR  
Please select 2 if you would like to watch Bethooven
```

Selecting a movie and time:

```
Prices:  
-----  
Adult Tickets: $6.00 matinee (before 6pm) & $8.00 (evening)  
Child Tickets: $4.00 matinee (before 6pm) & $6.00 (evening)  
-----  
  
Please select 1 if you would like to watch Free Birds  
OR  
Please select 2 if you would like to watch Bethooven
```

If user enters value besides 1 or 2, invalid input message prompts and re-asks user for new selection (input validation):

```
Please select 1 if you would like to watch Free Birds  
OR  
Please select 2 if you would like to watch Bethooven  
4  
The selection you made was invalid!  
Please select 1 if you would like to watch Free Birds  
or select 2 if you would like to watch Bethooven
```

When selecting “Free Birds” (1), program asks what time:

```
Please select 1 if you would like to watch Free Birds at 3:30  
Please select 2 if you would like to watch Free Birds at 6:00  
█
```

When selecting “Bethooven” (2), program asks what time:

```
Please select 2 if you would like to watch Bethooven
2
Select 1 if you would like to watch Bethooven at 5:30
Select 2 if you would like to watch Bethooven at 7:30
```

When selecting either the 3:30 showing or 6:00 showing, a theater seating chart appears:

	1	2	3	4	5	6	7	8
A	*	*	*	*	*	*	*	*
B	*	*	*	*	*	*	*	*
C	*	*	*	*	*	*	*	*
D	*	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

Program asks how many kids and adults are watching:

```
Please enter how many kids are watching: 3
Please enter how many adults are watching: 2
```

Select seats for every person watching (rows and columns):

```
Please select your seats.
What row would you like to sit at
Enter A , B , C , D , E , F , or G
```

Once finished, total price amount is displayed for user:

```
Total ticket price: $36.00
```


Free Birds 3:30 showing

1st Social Distancing Seating Scenario (1 kid, 0 adult):

	1	2	3	4	5	6	7	8
A	#	X	*	*	*	*	*	*
B	X	*	*	*	*	*	*	*
C	*	*	*	*	*	*	*	*
D	*	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

2nd Social Distancing Scenario (adding 1 adult, 3 kids):

	1	2	3	4	5	6	7	8
A	#	X	X	#	#	X	#	#
B	X	*	*	X	X	*	X	X
C	*	*	*	*	*	*	*	*
D	*	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

3rd Social Distancing Scenario (adding 1 kid, 3 adults):

	1	2	3	4	5	6	7	8
A	#	X	X	#	#	X	#	#
B	X	*	*	X	X	*	X	X
C	*	X	*	X	X	X	*	*
D	X	#	X	#	#	#	X	*
E	*	X	*	X	X	X	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

4th Social Distancing Scenario (adding 1 kid, 1 adult):

	1	2	3	4	5	6	7	8
A	#	X	X	#	#	X	#	#
B	X	X	#	X	X	*	X	X
C	*	X	X	X	X	X	*	*
D	X	#	X	#	#	#	X	X
E	*	X	*	X	X	X	X	#
F	X	*	*	*	*	*	*	X
G	*	*	*	*	*	*	*	*

5th Social Distancing Scenario (1 adult, 3 kids):

	1	2	3	4	5	6	7	8
A	*	*	*	X	*	*	*	*
B	*	*	X	#	X	*	*	*
C	*	X	*	X	*	*	*	*
D	X	#	X	*	*	*	*	*
E	*	X	*	*	*	*	*	X
F	*	*	*	*	*	*	X	#
G	X	*	*	*	*	X	#	X

Free Birds 6:00 showing

1st Social Distancing Seating Scenario (2 kids, 1 adult):

	1	2	3	4	5	6	7	8
A	#	X	*	X	#	X	*	*
B	X	*	*	*	X	*	*	*
C	*	*	*	*	*	*	X	*
D	*	*	*	*	*	X	#	X
E	*	*	*	*	*	*	X	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

2nd Social Distancing Scenario (adding 2 adults, 0 kids):

	1	2	3	4	5	6	7	8
A	#	X	*	X	#	X	X	#
B	X	*	X	*	X	*	*	X
C	*	X	#	X	*	*	X	*
D	*	*	X	*	*	X	#	X
E	*	*	*	*	*	*	X	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

3rd Social Distancing Scenario (adding 1 kid, 3 adults):

	1	2	3	4	5	6	7	8
A	#	X	*	X	#	X	X	#
B	X	*	X	*	X	X	*	X
C	X	X	#	X	X	#	X	*
D	#	X	X	*	X	X	#	X
E	X	*	*	X	#	X	X	*
F	*	*	*	*	X	*	*	X
G	*	*	*	*	*	*	X	#

4th Social Distancing Scenario (adding 1 kid, 1 adult):

	1	2	3	4	5	6	7	8
A	#	X	*	X	#	X	X	#
B	X	*	X	*	X	X	*	X
C	X	X	#	X	X	#	X	*
D	#	X	X	*	X	X	#	X
E	X	*	*	X	#	X	X	*
F	*	*	*	X	X	#	X	X
G	*	*	X	#	X	X	X	#

5th Social Distancing Scenario (adding 1 adult, 0 kids):

	1	2	3	4	5	6	7	8
A	#	X	*	X	#	X	X	#
B	X	*	X	*	X	X	*	X
C	X	X	#	X	X	#	X	*
D	#	X	X	*	X	X	#	X
E	X	*	*	X	#	X	X	*
F	X	*	*	X	X	#	X	X
G	#	X	X	#	X	X	X	#

Bethooven 5:30 Showing:

1st Social Distancing Seating Scenario (0 kids, 3 adults):

	1	2	3	4	5	6	7	8
A	#	X	*	*	X	#	X	#
B	X	*	*	*	*	X	*	X
C	*	*	*	*	*	*	*	*
D	*	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

2nd Social Distancing Scenario (adding 1 adult, 1 kid):

	1	2	3	4	5	6	7	8
A	#	X	*	X	X	#	X	#
B	X	X	X	#	X	X	*	X
C	X	#	X	X	*	*	*	*
D	*	X	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

3rd Social Distancing Scenario (adding 1 kid, 3 adults):

	1	2	3	4	5	6	7	8
A	#	X	*	X	X	#	X	#
B	X	X	X	#	X	X	#	X
C	X	#	X	X	*	*	X	*
D	#	X	X	#	X	*	X	*
E	X	*	*	X	*	X	#	X
F	*	*	*	*	*	*	X	*
G	*	*	*	*	*	*	*	*

4th Social Distancing Scenario (adding 0 kid, 1 adult):

	1	2	3	4	5	6	7	8
A	#	X	*	X	X	#	X	#
B	X	X	X	#	X	X	#	X
C	X	#	X	X	X	#	X	*
D	#	X	X	#	X	X	X	*
E	X	*	*	X	*	X	#	X
F	*	*	*	*	*	*	X	*
G	*	*	*	*	*	*	*	*

5th Social Distancing Scenario (adding 2 adults, 0 kids):

	1	2	3	4	5	6	7	8
A	#	X	*	X	X	#	X	#
B	X	X	X	#	X	X	#	X
C	X	#	X	X	X	#	X	*
D	#	X	X	#	X	X	X	*
E	X	*	*	X	*	X	#	X
F	X	*	*	X	*	*	X	*
G	#	X	X	#	X	*	*	*

Bethooven 7:30 Showing:

1st Social Distancing Seating Scenario (2 kids, 1 adult):

	1	2	3	4	5	6	7	8
A	#	#	X	*	*	*	X	#
B	X	X	*	*	*	*	*	X
C	*	*	*	*	*	*	*	*
D	*	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

2nd Social Distancing Scenario (adding 2 adults, 1 kid):

	1	2	3	4	5	6	7	8
A	#	#	X	X	#	X	X	#
B	X	X	#	X	X	*	*	X
C	#	X	X	*	*	*	*	*
D	X	*	*	*	*	*	*	*
E	*	*	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

3rd Social Distancing Scenario (adding 1 kid, 2 adults):

	1	2	3	4	5	6	7	8
A	#	#	X	X	#	X	X	#
B	X	X	#	X	X	*	X	X
C	#	X	X	X	#	X	#	X
D	X	#	X	*	X	*	X	*
E	*	X	*	*	*	*	*	*
F	*	*	*	*	*	*	*	*
G	*	*	*	*	*	*	*	*

4th Social Distancing Scenario (adding 0 kid, 1 adult):

	1	2	3	4	5	6	7	8
A	#	#	X	X	#	X	X	#
B	X	X	#	X	X	*	X	X
C	#	X	X	X	#	X	#	X
D	X	#	X	*	X	*	X	*
E	*	X	*	*	*	*	*	*
F	*	*	*	*	*	*	*	X
G	*	*	*	*	*	*	X	#

5th Social Distancing Scenario (adding 1 adult, 1 kid):

	1	2	3	4	5	6	7	8
A	#	#	X	X	#	X	X	#
B	X	X	#	X	X	*	X	X
C	#	X	X	X	#	X	#	X
D	X	#	X	*	X	*	X	*
E	X	X	*	X	*	*	*	*
F	#	X	X	#	X	*	*	X
G	X	*	*	X	*	*	X	#

Menu Display for Admin (entering -99):

```
-99
Please enter an option below:
1) Profits
2) number of tickets sold
3) Return to movies list
4) Run end of day
```

If invalid input, message prompts and re-asks (input validation):

```
Please enter an option below:
1) Profits
2) number of tickets sold
3) Return to movies list
4) Run end of day
-9
Invalid input, please try again.
```

Selecting 1 (Profits):

```
1
Select 1 to see money made by adults tickets.
Select 2 to see money made by kids tickets.
Select 3 to see money made all together.
Select 4 to go back to menu.
```

Selecting 1:

```
Select 1 to see money made by adults tickets.
Select 2 to see money made by kids tickets.
Select 3 to see money made all together.
Select 4 to go back to menu.
1
The amount of purchased adult tickets is: $6
```

Selecting 2:

```
Select 1 to see money made by adults tickets.
Select 2 to see money made by kids tickets.
Select 3 to see money made all together.
Select 4 to go back to menu.
2
The amount of purchased kids tickets is: $8
```

Selecting 3:

```
Select 1 to see money made by adults tickets.  
Select 2 to see money made by kids tickets.  
Select 3 to see money made all together.  
Select 4 to go back to menu.  
3  
The total amount of many made is: $14
```

Selecting 4 (back to admin menu):

```
Select 4 to go back to menu.  
4  
Returning to menu.  
Please enter an option below:  
1) Profits  
2) number of tickets sold  
3) Return to movies list  
4) Run end of day
```

From admin's menu, selecting 2 will bring:

```
2  
Select 1 to see tickets sold to adults  
Select 2 to see tickets sold to kids  
Select 3 to see tickets sold all together  
Select 4 to go back to menu
```

Selecting 3 from main admin's menu:

```
Please enter an option below:  
1) Profits  
2) number of tickets sold  
3) Return to movies list  
4) Run end of day  
3  
Returning to movie selections.  
_____Welcome to the Movie Theater!_____
```

Next page...

Selecting 4 (End of program)

```
Please enter an option below:  
1) Profits  
2) number of tickets sold  
3) Return to movies list  
4) Run end of day  
4  
Running end of day...  
Have a nice day.
```