

EECS 233 HW4

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1 Question 1 Output

```
Enter name (or 'quit '): annie
Enter current time 900
annie can have it now!
Enter name (or 'quit '): betty
Enter current time 930
betty can have it at 1000
Enter name (or 'quit '): charles
Enter current time 1045
annie is done!
charles can have it at 1100
Enter name (or 'quit '): danny
Enter current time 1215
betty is done!
charles is done!
danny can have it now!
Enter name (or 'quit '): robert
Enter current time 1350
charles is done!
robert can have it now!
Enter name (or 'quit '): tim
Enter current time 1400
danny is done!
tim can have it at 1450
Enter name (or 'quit '): q
```

2 Question 2: Fractals



.gif also included in submission, named ani.gif

3 Question 3: Grids and Recursion

3.1 Non-Recursive Method

```
C:\Users\bp001\Documents\EECS223\HW5>java Grid
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
s
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
l
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
r
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
l
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
l
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
s
Enter a direction for a step (s=straight , l=left , r=right , q=quit):
q
```

Turn 180 degrees
Take a step and remain straight
Take a step and turn right
Take a step and turn right
Take a step and turn left
Take a step and turn right
Take a step and remain straight
You have arrived where you started!

3.2 Recursive Method

```
C:\Users\bp001\Documents\EECS223\HW5>java RecursiveGrid
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
s
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
l
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
r
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
l
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
l
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
s
Enter a direction for a step (s=straight, l=left, r=right, q=quit):
q
Turn 180 degrees
Take a step and remain straight
Take a step and turn right
Take a step and turn right
Take a step and turn left
Take a step and turn right
Take a step and remain straight
You have arrived where you started!
```