Stat 479 Fall 2010 Quiz 8 November 2, 2010

1. You are given the following information on 23 lives in a one year mortality study.

Life	Time of Entry	Time of	Cause of
		Termination	Termination
1	0	.5	Lapse
2	0	.2	Death
3	0	.6	Death
4	0	.6	Lapse
5	0	.8	Death
6	0	.7	Lapse
7-20	0	1	End of Study
21	.2	.6	Death
22	.5	.9	Lapse
23	.7	1	End of Study

Calculate $\hat{S}_{23}(0.9)$ using the Nelson-Åalen estimate.

2. You are given following information about claims from automobile accidents occurring on Purdue Campus:

Amount of Claim	Number of Claims	
0-1000	700	
1000-2500	150	
2500-5000	90	
5000-10,000	40	
Over 10,000	20	

Using the ogive, calculate $F_{1000}(x)$ for $2500 \le x \le 5000$.