

CS 530
Assignment 4
Due: September 29

1. Develop a classifier for cardiac risk (using the data you used in Assignment 2) using **resting heart rate achieved** (Thalach). Assume the Thalach data is normally distributed with respect to cardiac risk. Compute the expected errors and expected total error for the classifier.
2. Using the risk matrix below, develop a classifier based on risk. Calculate the expected cost of the classifier. Let ω_j be the condition that j vessels are blocked.

	ω_0	ω_1	ω_2	ω_3	ω_4
α_0	0	6	8	12	20
α_1		0	4	16	20
α_2			0	5	12
α_3				0	6
α_4					0