

# CMSC 441

## Homework 5

### Reading Assignment:

- In commemoration of Halloween listen to Camille Saint-Saens' Danse Macabre
- Read Chapters 5 & 6 of the text and the Brassard Handout

### Homework:

- Use the characteristic equation method to solve the following recurrence :

$$t_n = 6t_{n-1} - 12t_{n-2} + 8t_{n-3} \text{ for } n \geq 3,$$

where  $t_0 = 0, t_1 = 2, t_2 = 8$ .

- Use the characteristic equation method to solve the following recurrence :

$$t_n = 4t_{n-2} + 3^n \text{ for } n \geq 2,$$

where  $t_0 = 0, t_1 = 4$ .

- Problem 2.3.10 found on page 76 of the Brassard handout.