

CS 4720/5720 Design and Analysis of Algorithms

Homework #**CHANGE ME!**

Student: (Robert Denim Horton)

Answers to homework problems:

1. QUESTION 1

(a) QUESTION 1 a)

(b) QUESTION 1 b)

Answers:

1. ANSWER 1

(a) ANSWER 1 a)

Example of matrix in latex;

$$S(t)_{diag} = \begin{bmatrix} S_1(t) & 0.0 & 0.0 & 0.0 & 0.0 \\ 0.0 & S_2(2) & 0.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & S_3(t) & 0.0 & 0.0 \\ 0.0 & 0.0 & 0.0 & S_4(t) & 0.0 \\ 0.0 & 0.0 & 0.0 & 0.0 & S_5(t) \end{bmatrix}$$

(b) ANSWER 1 b)

How to use align with equations;

$$S(1) = \begin{bmatrix} 0.01 & 0.0 & 0.0 & 0.0 & 0.0 \end{bmatrix} - 0.8 \begin{bmatrix} 0.99 & 0.0 & 0.0 & 0.0 & 0.0 \\ 0.0 & 1.0 & 0.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & 1.0 & 0.0 & 0.0 \\ 0.0 & 0.0 & 0.0 & 1.0 & 0.0 \\ 0.0 & 0.0 & 0.0 & 0.0 & 1.0 \end{bmatrix}$$

2. QUESTION 2

(a) QUESTION 2 A

(b) QUESTION 2 B

Answers:

2. ANSWER 2

(a) ANSWER 2 A

(b) ANSWER 2 B