ECS 455: Quiz 6 Solution

Instructions

- 1. Separate into groups of no more than three persons.
- 2. Only one submission is needed for each group. Late submission will not be accepted.
- 3. **Write down all the steps** that you have done to obtain your answers. You may not get full credit even when your answer is correct without showing how you get your answer.

Name	ID

4. Do not panic.

A 64×64 Hadamard matrix is created in MATLAB via the command

$$H = hadamard(64)$$
.

Note that the elements of ${\tt H}$ are all 1 or -1. Of course, there are 4,096 elements in ${\tt H}$. Writing them all down would take too much time. So, in this question, you are asked to identify only parts a and b that are shown in the following picture:

Remark: The picture is not drawn to scale.

a. (4 pt) Find H(1:4,1:4). (This is the part of H that is denoted by (a) in the picture above. It covers rows 1 to 4 and columns 1 to 4.)

b. (2 pt) Find H (61:64,61:64).