# Tutorial 1

# ECSE210L

1. Calculate the time complexity of the following functions.

   A) i=0
      WHILE (i <n)
         Statement 1
         Statement 2
         i=i+1

   B) i=1
      WHILE (i <n)
         Statement 1
         Statement 2
         i=i*2

   C) i=0
      WHILE (i <n)
         Statement 1
         Statement 2
         i=i+3;

   D) i=1
      WHILE (i <n)
         Statement 1
         Statement 2
         i=i*3;

   E) for i =1 to n
         Statement 1

   F) for i =1 to n
         for j= 1 to n
            Statement 1

G) for i =1 to n
     for j= 1 to i
          Statement 1

H) if (c>k)
     statement 1

  else

     for i =1 to n

          statement 1