Problem E4-6

   Suppose the following estimates of activities (in weeks) for the construction of a swimming pool were provided, along with their immediate predecessors. What is the probability that the project will be completed within 21 weeks? Within 22 weeks?

**Activity**                                 A      B      C      D      E      F      G      H

**Immediate Predecessor**         -      -       A      A      B    D, E   D, E  C, F

**Activity         Optimistic            Most Probable   Pessimistic**

                              A                    4.0                         5.0                      6.0

                              B                    2.5                         3.0                      3.5

                              C                    6.0                         7.0                      8.0

                              D                    5.0                         5.5                      9.0

                              E                    5.0                         7.0                      9.0

                              F                    2.0                         3.0                      4.0

                              G                    8.0                        10.0                    12.0

                              H                    6.0                         7.0                     14.0