1. Using the given program for Monte Carlo:

   (a) (10 points) Reproduce Fig. 8.9 as close as you can.

   (b) (10 points) Reproduce Fig. 8.10.

   (c) (10 points) Reproduce Figs. 8.11 and 12 for the first-order phase transition. Here you have to modify the flipping energy to include the effects of the magnetic field.

   (d) (5 points) Reproduce Fig. 8.14.

   (e) (5 points) Reproduce Fig. 8.15.

   (f) (10 points) Reproduce Fig. 8.16.