Homework 4
Due: Fri, 18 June 2004
(You can submit this early)

Note: Late HW is not accepted!

Instructions
Please write on only one side of each page. Place your name (last name first), due date, and the HW number in the upper right-hand-corner of each page. Staple all pages together in the upper-left-corner. Do not fold your homework. Attach all program listings (if any), i.e., list files. Verify your program solutions on the simulator when possible.

1. M & M Problems:
   - Software Design: 6.2, 6.4
   - SCI: 10.1, 10.3, 10.7, 10.8, 10.10, 10.11, 10.14, 10.15, 10.16, 10.17, 10.25, 10.26

2. S&HE Problems:
   - Programming: 6.5, 6.17
   - SCI: 11.2, 11.7, 11.8,

3. 6812 Program:
You are given a vector containing N 16-bit 2's complement format numbers. N can be as large as FF Hex. Assume the first element of the vector starts at $5000. Compute the average value for this vector and store this to $4800. Place your program at $4000. If there is an overflow in the summation, indicate by writing a '1' at location $4900; otherwise write a '0' if there is no overflow. Code & data should be easily re-locatable. Hand in a list file & simulate with dummy data to make sure it executes correctly.