Answers to lab 2

1. The address spim starts on is the hex number 400024.
   1. Counter is located at the hex address 10010000.
   2. Msg is located at the hex address 10010010.
2. The original values in the array were 5,7,4,3, but they changed to 4,3,2,1 after running through the loop.
3. At the first break point the content is 4,3,2,1.
   1. At the second break point the content is 4,3,2,1
   2. At the third break its 3,2,4,1
   3. At the fourth break its 3,2,1,4
   4. At the fifth break it stays the same.
   5. At the sixth break its 2,3,1,4
   6. At the seventh break its 2,1,3,4
   7. The values stay the same for the next two breaks.
   8. At the tenth break its 1,2,3,4
4. At the first break point its 7, 7, 1
   1. At the second break point its 2,7,7
   2. At the third break point its 2,2,7
   3. At the fourth break point its 0,1,2,7
5. The array values when sorting 8 numbers is 1,2,3,4,5,6,7,8.