```
Main Module M0
   call input module M1(FLAG) to obtain flag
   call processing module M2(FLAG, ARRAY)
   call output module M3(ARRAY) to display ARRAY

Input module M1(FLAG)
   Prompt user to input a number and store it in FLAG

Process module M2(FLAG, ARRAY)
   common variable ARRAY
   switch FLAG
   case 1: call module M21
   case 2: call module M22

Submodule M21
   common variable ARRAY
   sort up 100 random numbers and store results in ARRAY

Submodule M22
   common variable ARRAY
   sort down 50 random numbers and store results in ARRAY

Output module M3(ARRAY)
   Display output ARRAY
```

(b) What is the coupling between M0 and M2?

Answer: control coupling because the FLAG is used to control M2, and
        stamp coupling because the data structure ARRAY is passed
        between M0 and M2. Since control coupling is stronger
        the correct answer is control coupling. If the answer is
        stamp coupling student gets 0.5 pt.

(c) What is the coupling between M2 and M21?

Answer: common coupling because M2 and M21 share common ARRAY