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**Assignment 11, Ch4.10 Programming Exercise 2**

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;Exchanging pairs of array values.

.386  
.model flat,stdcall  
.stack 4096  
ExitProcess proto,dwExitCode:dword

.data  
 array dword 1,2,3,4,5,6,7,8  
 .code  
 main proc  
   mov esi, OFFSET array  
  mov ecx, LENGTHOF array -1

    
 exchangeLoop: ; loop for exchanging array values   
  
   MOV eax,[esi]  
  XCHG eax,[esi+4]  
  MOV [esi],eax  
  
  add esi, TYPE array  
  add esi, TYPE array  
  
 loop exchangeLoop ; end of array exchange loop   
  
 invoke ExitProcess,0  
main endp  
end main