

How to find the minimum and maximum of three integers

This routine that shows how to find the minimum and maximum values of three integers using assembly code.

```
procedure MinMax(a, b, c: integer; var mn, mx: integer);  
{-return min and max (a,b,c)}  
asm  
    cmp eax,edx      // if a > b then  
    jg @1            // goto @1  
    xchg eax,edx      // else swap(a,b)  
@1:  
    cmp eax,ecx      // if a < c then  
    jg @2            // goto @2  
    xchg eax,ecx      // else swap(a,c)  
@2:  
    cmp ecx,edx      // if c > e then  
    jg @3            // goto @3  
    xchg ecx,edx      // else swap(b,c)  
@3:  
    mov ecx,[ebp+8]   // get the address of max  
    mov [ecx],eax  
    mov ecx,[ebp+12]  // get the address of min  
    mov [ecx],edx  
end;
```

Author:	Unknown
Contributor:	Bruce Wernick
Added:	2014-01-22
Last updated:	2014-01-22

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