1. Locate the first nonzero value in the array. If none is found, let E S I point to the sentinel value

.data

array SWORD 50 DUP (?)

sentinel SWORD 0FFFFh

```
        .code
        main PROC
                mov esi,OFFSET array
                mov ecx,LENGTHOF array


    L1: cmp WORD PTR [esi], 0              ; check for zero
        pushfd                            ; push flags on stack
        add  esi,TYPE array
        popfd                             ; pop flags from stack
        loope  L1                         ; continue loop
        jnz  quit                         ; none found
        sub  esi,TYPE array               ; ESI points to value
    quit:
        …………
```

2. Conversion with *ja*

if (ebx <= ecx)

{   conversion

eax = 5;

edx = 6;

}

```
   cmp ebx,ecx
   ja   next
   mov eax,5
   mov edx,6
next:
```

3. Conversion with *jle, jmp*

if (var1 <= var2)

  var3 = 10;   conversion

else

{

var3 = 6;

var3 = 7;

}

```
    mov eax,var1
    cmp eax,var2
    jle L1
    mov var3,6
    mov var4,7
    jmp L2
L1: mov var3,10
L2:
```

4. Conversion with *cmp, ja, jbe*

if (ebx <= ecx && ecx > edx)

{   conversion

eax = 5;

edx = 6;

}

```
    cmp ebx,ecx
    ja  next
    cmp ecx,edx
    jbe next
    mov eax,5
    mov edx,6
next:
```