```asm
.model small
display macro msg
        lea dx,msg
        mov ah,09h
        int 21h
endm

.data

    array dw 1234h,2345h,3356h
    leng dw ($-array)/2
    suc db 10,13, 'sucess and the position is '
    pos db ' $'
    unsuc db 10,13, 'unsucess search $'
    key dw 2234h

.code

    mov ax,@data
    mov ds,ax
    mov bx,00h      ;bx=low
    mov dx,leng     ;dx=high
    mov cx,key

again:cmp bx,dx             ;is (low < high)
    ja failure

    mov ax,bx
    add ax,dx
    shr ax,1               ;mid=(low+high)/2
    mov si,ax
    dec si                 ;to acess a word data
    add si,si
    cmp cx,array[si]       ;compare key with array[mid]
    jae next

    dec ax
    mov dx,ax              ; high=mid-1
    jmp again

next: je success
    inc ax                 ;low= mid+1
    mov bx,ax
    jmp again


                           ;ascii conversion
success: add al,'0'
    mov pos,al
    display suc
    jmp exit

failure: display unsuc
exit:
    mov ah,4ch
    int 21h
```