

Ngôn ngữ cấp cao  
(C chuẩn)

```
swap(int v[], int k){  
    int temp;  
    temp = v[k];  
    v[k] = v[k+1];  
    v[k+1] = temp;  
}
```

Trình biên dịch



Hợp ngữ  
(MIPS)

```
swap:  
    multi $2, $5,4  
    add $2, $4,$2  
    lw $15, 0($2)  
    lw $16, 4($2)  
    sw $16, 0($2)  
    sw $15, 4($2)  
    jr $31
```

Assembler



Ngôn ngữ máy  
(MIPS)

```
0000000001010001000000000100011000  
000000000100000100001000000100001  
100011011110001000000000000000000  
1000111000010010000000000000000100  
101011100001001000000000000000000  
1010110111100010000000000000000100  
00000011111000000000000000000001000
```