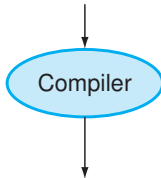


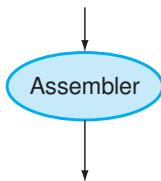
High-level  
language  
program  
(in C)

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



Assembly  
language  
program  
(for 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
```



Binary machine  
language  
program  
(for MIPS)

```
000000001010001000000000100011000
00000000100000100001000000100001
10001101111000100000000000000000
100011100001001000000000000000100
10101110000100100000000000000000
101011011110001000000000000000100
000000111110000000000000000000100
```