> 2021年4月4日
>
> Author:李燕琴_20195633

2.1

```
# 实现 f = g + (h-5)
    .data
g: .word 1
h: .word 7
    .text
lw $s0,h
lw $s1,g
addi $t0,$s0,-5
add $s1,$s1,$t0
```

2.2

```
f = g + h + i;
```

2.3

```
# 实现B[8]=A[i-j], i:$s3, j:$s4, A:$s6, B:$s7
# lw $s3,i
# lw $s4,j
sub $t0,$s3,$s4
sll $t0,$t0,2
add $t0,$s6,$t0  # 得到A[i-j]地址
lw $s1,0($t0)  # load A[i-j]
sw $s1,32($s7) # store B[8]
```

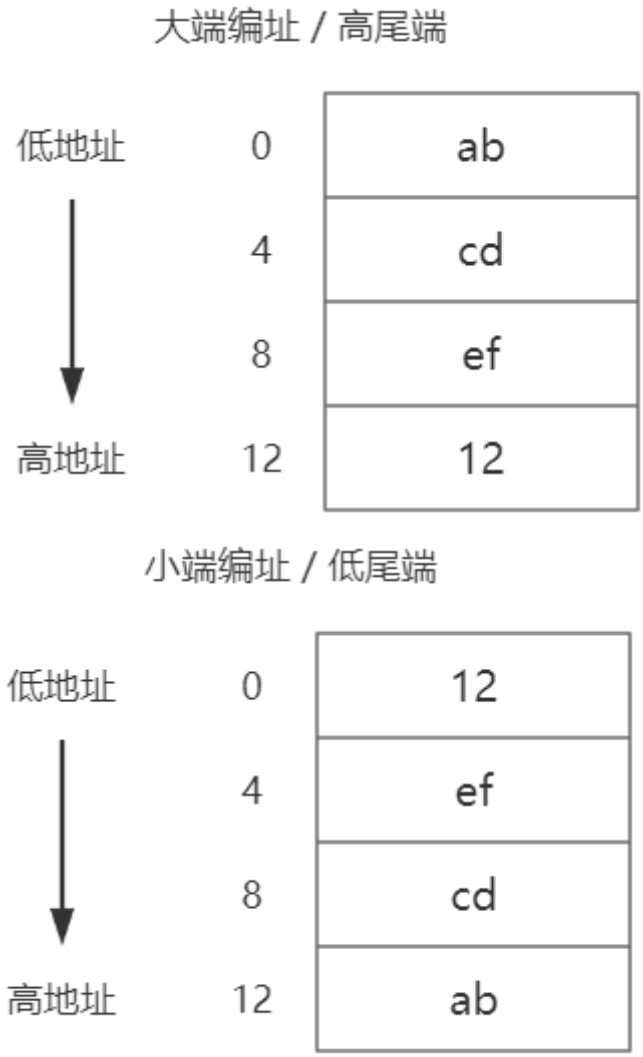
2.4

```
B[g] = A[f]+A[f+1];
```

2.5

```
# f:$s0, g:$s1, A:$s6, B:$s7
add $t0,$s6,$s0
lw $s0,0($t0)  # 取A[f]
lw $t0,4($t0) #  取A[f+1]
add $t0,$s0,$t0
add $s0,$s7,$s1
sw $t0,0($s0) # 存B[g]
```

2.7



2.10

```
f = 2*(&A)
```

2.12

(1) $0x50000000$

(2) 溢出后的结果

(3) $0xB0000000$

(4) 期望的结果

(5) $0xD0000000$

(6) 溢出后的结果

2.39

```
lui $t1,8193
ori $t1,$t1,18724
```

2.40

不能直接跳转，jp指令能直接跳转最大的距离是0x0FFFFFFC，2.39中的值0x20014924超过了0FFFFFFC