MIPs和80x86作业（2018年4月1日）

一、将下列MIPS指令翻译成机器代码。

1. add $s1,$s2,$s3

2. sub $s4,$t5,$t9

3. and $t1,$t2,$s3

4. or or $t0, $t1, $t2

5. slt $t0, $s3, $s4

6. lw $t0, 32($s3)

7 sw $t0, 48($s3)

二、Provide the type, assembly language instruction, and binary representation of instruction described by the following MIPS fields: op=0, rs=3, rt=2, rd=3, shamt=0, funct=34

三、Provide the type, assembly language instruction, and binary representation of instruction described by the following MIPS f elds: op=0x23, rs=1, rt=2, const=0x4

四、编写实现下列C语言描述的功能的MIPs程序和**80x86程序**

（1）C code:

f = (g - h) + (i - j);

（2）C code:

g = h + A[2];

（3）C code:

A[8] = h + A[4];

（4）C code:

if (i==j) f = g-h;  
else f = g+h;

（5）C code:

while (save[i] <> k) i += 1;