#include <stdio.h>

int main()

{

int i,j;

int iden[3][4];

int target[3][4];

for(j=0;j<=2;i++)

{

for(i=0;i<=3;i++)

scanf("%d",iden[i][j]);

}

for(j=0;j<=2;j++)

{

target[j][0]=(iden[j][1]+5)%10;

target[j][1]=(iden[j][0]+5)%10;

target[j][2]=(iden[j][3]+5)%10;

target[j][3]=(iden[j][2]+5)%10;

}

for(j=0;j<=2;i++)

{

for(i=0;i<=3;i++)

printf("%d",target[i][j]);

printf("\n");

}

}

iden[j][i]

iden[0][0]的基地址为$s0,

iden[0][1]的基地址为$s1,

iden[0][2]的基地址为$s2,

iden[0][3]的基地址为$s3

j被分配到了$s4

target[j][0]的基地址为$s5

target[j][1]的基地址为$s6

target[j][2]的基地址为$s7

target[j][3]的基地址为$s8

target[j][0]=(iden[j][1]+5)%10;

target[j][1]=(iden[j][0]+5)%10;

target[j][2]=(iden[j][3]+5)%10;

target[j][3]=(iden[j][2]+5)%10;

addi $s4,$zero,0 ;reset $s4,assign j=0

ForLoop: addi $t0,$zero,2

beq $s4,$t0,Exit ;j=2, goto Exit

add $t1,$s4,$s4

add $t1,$t1,$t1 ;j multiple 4

add $t1,$t1,$s0 ;$t1 address of iden[j][0]

lw $t0,0($t1) ;$t0=iden[j][0]

addi $s0,$t0,5 ;$s0=iden[j][0]+5

addi $t7, $zero, 5

beq $s0, $t7, exitmod

addi $t7, $zero, 6

beq $s0, $t7, exitmod

addi $t7, $zero, 7

beq $s0, $t7, exitmod

addi $t7, $zero, 8

beq $s0, $t7, exitmod

addi $t7, $zero, 9

beq $s0, $t7, exitmod

addi $s0, $s0, -10

exitmod： ;(iden[j][0]+5)%10;

add $s6,$s6,$s0 ;target[j][1]=(iden[j][0]+5)%10;

add $t1,$t1,$s1 ;$t1 address of iden[j][1]

lw $t0,0($t1) ;$t0=iden[j][1]

addi $s1,$t0,5 ;$s1=iden[j][1]+5

addi $t7, $zero, 5

beq $s1, $t7, exitmod2

addi $t7, $zero, 6

beq $s1, $t7, exitmod2

addi $t7, $zero, 7

beq $s1, $t7, exitmod2

addi $t7, $zero, 8

beq $s1, $t7, exitmod2

addi $t7, $zero, 9

beq $s1, $t7, exitmod2

addi $s1, $s1, -10 ;(iden[j][1]+5)%10;

exitmode2:

add $s5,$s5,$s1 ;target[j][0]=(iden[j][1]+5)%10;

add $t1,$t1,$s2 ;$t1 address of iden[j][2]

lw $t0,0($t1) ;$t0=iden[j][2]

addi $s2,$t0,5 ;$s2=iden[j][2]+5

addi $t7, $zero, 5

beq $s2, $t7, exitmod3

addi $t7, $zero, 6

beq $s2, $t7, exitmod3

addi $t7, $zero, 7

beq $s2, $t7, exitmod3

addi $t7, $zero, 8

beq $s2, $t7, exitmod3

addi $t7, $zero, 9

beq $s02, $t7, exitmod3

addi $s2, $s2, -10 ;(iden[j][2]+5)%10;

exitmod3:

add $s8,$s8,$s2 ;target[j][3]=(iden[j][2]+5)%10;

add $t1,$t1,$s3 ;$t1 address of iden[j][3]

lw $t0,0($t1) ;$t0=iden[j][3]

addi $s3,$t0,5 ;$s1=iden[j][3]+5

addi $t7, $zero, 5

beq $s3, $t7, exitmod4

addi $t7, $zero, 6

beq $s3, $t7, exitmod4

addi $t7, $zero, 7

beq $s3, $t7, exitmod4

addi $t7, $zero, 8

beq $s3, $t7, exitmod4

addi $t7, $zero, 9

beq $s3, $t7, exitmod4

addi $s3, $s3, -10 ;(iden[j][3]+5)%10;

exitmod4:

add $s7,$s7,$s3 ;target[j][0]=(iden[j][3]+5)%10;

addi $s4,$s4,1 ;j++

j ForLoop

Exit: