LBU $30,$0(50) PC=00	10010000000111100000000000110010
ADDI $30,$30,1 PC=04	00100011110111100000000000000001
ADDI $1,$0,1 PC=08	00100000000000010000000000000001
ADDI $5,$0,0 PC=0C	00100000000001010000000000000000
BEQ $1,$30,END5 PC=10 LOOP5	00010000001111100000000000000011
ADD $5,$5,$1 PC=14	00000000101000010010100000100000
ADDI $1,$1,1 PC=18	00100000010000100000000000000001
J LOOP5 PC=1C	00001000000000000000000000000100
ADDI $1,$0,1 PC=20 END5	00100000000000010000000000000001
ADDI $6,$0,0 PC=24	00100000000001100000000000000000
BEQ $1,$30,END6 PC=28 LOOP6	00010000001111100000000000000101
ADD $2,$1,$0 PC=2C	00000000001000000001000000100000
ADD $3,$1,$0 PC=30	00000000001000000011000000100000
JAL ctnhan PC=34	00001100000000000000000001101111
ADD $6,$6,$4 PC=38	00000000110001000011000000100000
J LOOP6 PC=3C	00001000000000000000000000001010
ADDI $1,$0,3 PC=40 END6	00100000000000010000000000000011
ADDI $2,$0,1 PC=44	00100000000000010000000000000001
ADDI $3,$0,1 PC=48	00100000000000110000000000000001
BEQ $1,$30,END7 PC=4C LOOP7	00010000001111100000000000000101
ADD $4,$2,$3 PC=50	00000000010000110010000000100000
ADDI $2,$3,0 PC=54	00100000011000100000000000000000
ADDI $3,$4,0 PC=58	00100000100000110000000000000000
ADDI $1,$1,1 PC=5C	00100000010000100000000000000001
J LOOP7 PC=60	00001000000000000000000000010011
ADDI $7,$3,0 PC=64 END7	00100000011001110000000000000000
ADDI $1,$0,0 PC=68	00100000000000010000000000000000
ADDI $3,$0,1 PC=6C	00100000000000110000000000000001
BEQ $1,$30,END8 PC=70 LOOP8	00010000001111100000000000000101
ADDI $2,$1,1 PC=74	00100000010000100000000000000001
JAL ctnhan PC=78	00001100000000000000000001101111
ADDI $3,$4,0 PC=7C	00100000100000110000000000000000
ADDI $1,$1,0 PC=80	00100000010000100000000000000000
J LOOP8 PC=84	00001000000000000000000000011100
ADDI $8,$3,0 PC=88 END8	00100000011010000000000000000000
ADDI $1,$0,1 PC=8C	00100000000000010000000000000001
LW $30,$0(50) PC=90	10001100000111100000000000110010
ADDI $2,$0,33 PC=94	00100000000000100000000000100001
BEQ $1,$2,END910 PC=98 LOOP910	00010000001000100000000000001000
ANDI $4,$30,x01 PC=9C	00110011110001000000000000000001
BNE $4,$0,notzero PC=A0	00010100100000000000000000000010
ADDI $10,$10,1 PC=A4	00100001010010100000000000000001
J through PC=A8	00001000000000000000000000101100
ADDI $9,$9,1 PC=AC notzero	00100001001010010000000000000001

ADDI $1,$1,1	PC=B0 through	00100000001000010000000000000001
SRL $30,$30,1	PC=B4	00000000000111101111000001000010
J LOOP910	PC=B8	00001000000000000000000000100110
LBU $11,$0(01)	PC=BC END910	10010000000010110000000000000001
LBU $12,$0(02)	PC=C0	10010000000011000000000000000010
LBU $13,$0(03)	PC=C4	10010000000011010000000000000011
LBU $14,$0(04)	PC=C8	10010000000011100000000000000100
LBU $15,$0(05)	PC=CC	10010000000011110000000000000101
LBU $16,$0(06)	PC=D0	10010000000100000000000000000110
LBU $17,$0(07)	PC=D4	10010000000100010000000000000111
LBU $18,$0(08)	PC=D8	10010000000100100000000000001000
LBU $19,$0(09)	PC=DC	10010000000100110000000000001001
ADDI $1,$0,1	PC=E0	00100000000000010000000000000001
ADDI $4,$0,10	PC=E4	00100000000001000000000000001010
BEQ $1,$4,ENDA	PC=E8 LOOPA	00010000001001000000000000101010
ADDI $2,$11,0	PC=EC	00100001011000100000000000000000
ADDI $3,$12,0	PC=F0	00100001100000110000000000000000
JAL cttraodoi	PC=F4	00001100000000000000000001110111
ADDI $11,$2,0	PC=F8	00100000100101100000000000000000
ADDI $12,$3,0	PC=FC	00100000110110000000000000000000
ADDI $2,$12,0	PC=100	00100001100000100000000000000000
ADDI $3,$13,0	PC=104	00100001101000110000000000000000
JAL cttraodoi	PC=108	00001100000000000000000001110111
ADDI $12,$2,0	PC=10C	00100000100110000000000000000000
ADDI $13,$3,0	PC=110	00100000110110100000000000000000
ADDI $2,$13,0	PC=114	00100001101000100000000000000000
ADDI $3,$14,0	PC=118	00100001110000110000000000000000
JAL cttraodoi	PC=11C	00001100000000000000000001110111
ADDI $13,$2,0	PC=120	00100000100110100000000000000000
ADDI $14,$3,0	PC=124	00100000110111000000000000000000
ADDI $2,$14,0	PC=128	00100001110000100000000000000000
ADDI $3,$15,0	PC=12C	00100001111000110000000000000000
JAL cttraodoi	PC=130	00001100000000000000000001110111
ADDI $14,$2,0	PC=134	00100000100111000000000000000000
ADDI $15,$3,0	PC=138	00100000110111100000000000000000
ADDI $2,$15,0	PC=13C	00100001111000100000000000000000
ADDI $3,$16,0	PC=140	00100010000000110000000000000000
JAL cttraodoi	PC=144	00001100000000000000000001110111
ADDI $15,$2,0	PC=148	00100000100111100000000000000000
ADDI $16,$3,0	PC=14C	00100000111000000000000000000000
ADDI $2,$16,0	PC=150	00100010000000100000000000000000
ADDI $3,$17,0	PC=154	00100010001000110000000000000000
JAL cttraodoi	PC=158	00001100000000000000000001110111
ADDI $16,$2,0	PC=15C	00100000101000000000000000000000

ADDI $17,$3,0	PC=160	00100000011100010000000000000000
ADDI $2,$17,0	PC=164	00100010001000100000000000000000
ADDI $3,$18,0	PC=168	00100010010000110000000000000000
JAL cttraodoi	PC=16C	00001100000000000000000000001110111
ADDI $17,$2,0	PC=170	00100000010100010000000000000000
ADDI $18,$3,0	PC=174	00100000011100100000000000000000
ADDI $2,$18,0	PC=178	00100010010000100000000000000000
ADDI $3,$19,0	PC=17C	00100010011000110000000000000000
JAL cttraodoi	PC=180	00001100000000000000000000001110111
ADDI $18,$2,0	PC=184	00100000010100100000000000000000
ADDI $19,$3,0	PC=188	00100000011100110000000000000000
ADDI $1,$1,1	PC=18C	00100000001000010000000000000001
J LOOPA	PC=190	00001000000000000000000000111010
ADDI $20,$11,0	PC=194 ENDA	00100001011101000000000000000000
ADDI $21,$12,0	PC=198	00100001100101010000000000000000
ADDI $22,$13,0	PC=19C	00100001101101100000000000000000
ADDI $23,$14,0	PC=1A0	00100001110101110000000000000000
ADDI $24,$15,0	PC=1A4	00100001111110000000000000000000
ADDI $25,$16,0	PC=1A8	00100010000110010000000000000000
ADDI $26,$17,0	PC=1AC	00100010001110100000000000000000
ADDI $27,$18,0	PC=1B0	00100010010110110000000000000000
ADDI $28,$19,0	PC=1B4	00100010011111000000000000000000
J END	PC=1B8	00001000000000000000000001111101
ADDI $4,$0,0	PC=1BC ctnhan	00100000000001000000000000000000
ADDI $29,$0,0	PC=1C0	00100000000111010000000000000000
BEQ $29,$3,ENDm	PC=1C4 LOOP	00010011101000110000000000000011
ADD $4,$4,$2	PC=1C8	00000000100000100010000000100000
ADDI $29,$29,1	PC=1CC	00100011101111010000000000000001
J LOOP	PC=1D0	00001000000000000000000001110001
ADDI $1,$1,1	PC=1D4 ENDm	00100000001000010000000000000001
JR $31	PC=1D8	00000011111000000000000000001000
SLT $30,$2,$3	PC=1DC cttraodoi	00000000010000111111000000101010
BNE $30,$0,endtd	PC=1E0	00010111110000000000000000000011
ADDI $29,$2,0	PC=1E4	00100000010111010000000000000000
ADDI $2,$3,0	PC=1E8	00100000011000100000000000000000
ADDI $3,$29,0	PC=1EC	00100011101000110000000000000000
JR $31	PC=1F0 endtd	00000011111000000000000000001000
LUI $1,xABCD	PC=1F4 END	00111100000000011010101111001101
ORI $2,$1,x0101	PC=1F8	00110100001000100000000100000001
AND $3,$1,$2	PC=1FC	00000000001000100001100000100100
OR $4,$1,$2	PC=200	00000000001000100010000000100101
NOR $29,$1,$2	PC=204	00000000001000101110100000100111
SLTI $30,$1,xFFFF	PC=208	00101000001111101111111111111111
SB $30,$0(49)	PC=20C	10100000000111100000000000110001

SW $29,$0(44) PC=210 10101100000111010000000000101100

n chứa trong ô nhớ 50
a chứa trong 4 ô nhớ (50,51,52,53)
Task 1: Tính tổng 1+2+...+n lưu vào $5
(0-3500)
Task 2: Tính tổng 1^2+2^2+...+n^2 lưu vào $6
(3500-22700)
Task 3: Tính số Fibonacci thứ n lưu vào $7
(22700-26200)
Task 4: Tính (n+1)! lưu vào $8
(26200-2401000)
Task 5: Tìm số chữ số 0 và số chữ số 1 trong a lưu vào $10 và $9
(2401000-2425400)
Task 6: Sắp xếp tăng dần các giá trị trong các ô nhớ từ 1 đến 9 lưu vào $20-28
(2425400-2492400)
Task 7: Test 1 số lệnh còn lại
LUI $1,xABCD PC=1F4 END
ORI $2,$1,x0101 PC=1F8
AND $3,$1,$2 PC=1FC
OR $4,$1,$2 PC=200
NOR $29,$1,$2 PC=204
SLTI $30,$1,xFFFF PC=208
SB $30,$0(49) PC=20C
SW $29,$0(44) PC=210

$1=xABCD0000
$2=xABCD0101
$3=xABCD0000
$4=xABCD0101
$29=x5432FEFE
$30=(ABCD0000<0000FFFF)=0
Mem(49)=x00
Mem(44:47)=x5432FEFE

Pipeline: 249870 để thực hiện xong, giảm 10 lần !