

Imagine for this exercise that pages are 8 bytes long.

Real Address	Frame	Content
0	0	1001
4		0
8	1	0
12		0
16	2	3001
20		4000
24	3	0
28		0
32	4	5001
36		0
40	5	0
44		0
48	6	7001
52		9000
56	7	0
60		0

Task1:

Fill the frame number

Task2:

Now suppose there's a process and its contents in virtual address looks like:

{3001, 4000, 7001, 9000, 5001, 0, 1001, 0}

What should the page table look like?

Virtual page	Real page
0	2
1	6
2	4
3	0

Task3:

Here's a program:

lw x1, 8(x0)

lw x2, 16(x0)

lw x3, 24(x0)

addi x1, x1, -6993

add x4, x3, x2

sw x4, 0(x1)

Please specify which real address and content have changed. And what's the new content now.

Real address 48 is changed from 7001 to 6002