EC Examen de Problemes (SOLUCIONS)

Exercici 1 (examen final 12/13 Q1)

@Memòria	Dada	@Memòria	Dada	@Memòria	Dada	@Memòria	Dada
0x10010000	0x0C	0x10010010	0x30	0x10010020		0x10010030	
0x10010001		0x10010011	0x31	0x10010021		0x10010031	
0x10010002	0x3F	0x10010012	0x32	0x10010022		0x10010032	
0x10010003	0x01	0x10010013	0x33	0x10010023		0x10010033	
0x10010004		0x10010014	0x34	0x10010024		0x10010034	
0x10010005		0x10010015	0x00	0x10010025		0x10010035	
0x10010006		0x10010016	0x03	0x10010026		0x10010036	
0x10010007		0x10010017	0x00	0x10010027		0x10010037	
0x10010008	0xFC	0x10010018	0x00	0x10010028		0x10010038	
0x10010009	0xFF	0x10010019	0x00	0x10010029		0x10010039	
0x1001000A	0xFF	0x1001001A	0x00	0x1001002A		0x1001003A	
0x1001000B	0xFF	0x1001001B	0x00	0x1001002B		0x1001003B	
0x1001000C	0x FF	0x1001001C	0x00	0x1001002C		0x1001003C	
0x1001000D	0xFF	0x1001001D	0x 00	0x1001002D		0x1001003D	
0x1001000E	0xFF	0x1001001E	0x60	0x1001002E		0x1001003E	
0x1001000F	0xFF	0x1001001F	0x40	0x1001002F		0x1001003F	

Exercici 2 (problema 2.29 de la col.lecció)

a) `#punterc++;`

```
la    $t0, punterc
lw    $t1, 0($t0)
addiu $t1, $t1, 1
sw    $t1, 0($t0)
```

b) `#punteri++;`

```
la    $t0, punteri
lw    $t1, 0($t0)
addiu $t1, $t1, 4
sw    $t1, 0($t0)
```

c) `#punterh++;`

```
la    $t0, punterh
lw    $t1, 0($t0)
addiu $t1, $t1, 2
sw    $t1, 0($t0)
```

d) `#punterd++;`

```
la    $t0, punterd
lw    $t1, 0($t0)
addiu $t1, $t1, 8
sw    $t1, 0($t0)
```

e) `#*punteri = *punteri + 5;`

```
la    $t0, punteri
lw    $t0, 0($t0)
lw    $t1, 0($t0)
addiu $t1, $t1, 5
sw    $t1, 0($t0)
```

f) `#*punterh = *punterh + 10;`

```
la    $t0, punterh
lw    $t0, 0($t0)
lh    $t1, 0($t0)
addiu $t1, $t1, 10
sh    $t1, 0($t0)
```

Exercici 3 (problema 2.28 de la col.lecció)

a) `punter = &vec[2];`

b) `punter = punter + 1;`

c) `vec[1] = vec[0] + vec[1];`

d) `vec[2] = *punter + 1;`

e) `*(punter + 2) = *punter + 1;`