

1.

Q:  $B[B] = A[i] + A[j]$

A: `sll $t0, $s3, 2`

`add $t0, $t0, $s6`

`lw $t0, 0($t0)`

`sll $t1, $s4, 2`

`add $t1, $t1, $s6`

`lw $t1, 0($t1)`

`add $t2, $t0, $t1`

`sw $t2, 2($s7)`

2.

Q: 

0000	0010	0001	0000	1000	0000	0010	0000
op	rs	rt	rd	shamt	funct		

op: 000000 → add

rs: 10000 → 16 = \$s0

rt: 10000 → 16 = \$s0

rd: 10000 → 16 = \$s0

shamt: 00000 → x

funct: 100000

A: `add $s0, $s0, $s0`

3.

a.

```
A: bgtz x29, loop
    sub x29, x29, 1
```

b.

```
A: rpt x29, loop
```

// loop 에 대한 것은 정의해주지 않음.

4.

```
A: int i = 0;           //t1
    int memory[100];    //s1
    int result = 0;      //s2
```

```
for (i=0; i<100; i++) {
    result += memory[i];
}
```

5.

Q: lbu \$t0, 0(\$t1)

sw \$t0, 0(\$t2)

\$t1 0x1000000

\$t2 0x1000004

data 0x11223344

a.

0x1000000 0x11 → \$t0 → \$t2

0x1000001 0x22

0x1000002 0x33

0x1000003 0x44

A: 0x11000000

b.

0x1000000 0x44 → \$t0 → \$t2

0x1000001 0x33

0x1000002 0x22

0x1000003 0x11

A: 0x44000000