

Question1:

```
Loop: add $1,$0,$0
      add $6,$3,$1
      lw $7,0($6)
      add $8,$4,$1
      sw $7,0($8)
      addi $1,$1,1
      beq $1,$0,Loop
```

Show the optimum scheduling of the above instructions if the loop executes for only 1 iteration. Your scheduling should work for a 2-issue processor where first slot can issue a mem instruction while the second can take arithmetic and branch instruction.