

Homework 6 Solutions

Question 1.

Solution 1)

```
.ORIG x3000 ;
AND R0,R0,#0 ;
NOT R2, R2 ;
ADD R2,R2, #1;
ADD R0,R1,R2 ;
BRn DONE ;
AND R0,R0,#1;
DONE HALT ;
.END
```

Solution 2)

```

.ORIG x3000 ;
NOT R2, R2 ;
ADD R2,R2, #1;
ADD R0,R1,R2 ;
BRp LOOP ;
AND R0,R0,#0 ;
BRnzp DONE;
LOOP AND R0,R0,#0 ;
ADD R0,R0,#1 ;
DONE HALT ;
.END

```

Question 2.