5. Data structure question. Consider the situation where a user has an array of words. The operation that is to be performed on this array of data is to sum all of the elements. The array starts at address **0xFF000100** (and progresses to higher addresses). Create code that will calculate the sum of the first 600 values of this array. Assume that there will be no overflow because of the sum.

```
.org 0x3000
lis r2, 0xFF000100 @h
ori r2,r2, 0xFF000100 @l
li r3, 0
li r4, 600

MTCTR r4

Sum:   lwz  r5, 0(r2)
       add  r3, r3, r5
       addi r2, r2, 4


       bdnz sum

       nop
```