

Question 5 (15 points): Translate the following C code into MIPS. Assume that `str` is a null-terminated character array, declared as `char str[]`, and that the address of the base of `str` is in `$s0`. Do not use pseudoinstructions in your code.

```
int i = 0;
while (str[i] != 0) {
    if (str[i] > 90) {
        str[i] = str[i] - 32;
    }
    i++;
}
```