10.4.1

10.6.1

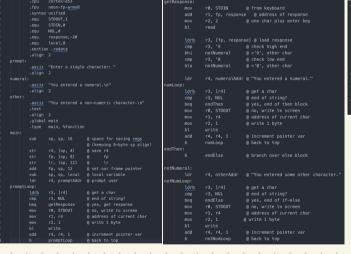
```
.cpu cortex-a53
.fpu neon-fp-armv8
.syntax unified @ modern syntax
.equ STDIN,0
.equ STDUT,1
.equ char1,-8
.equ char2,-7
.equ char3,-6
.equ char4,-5
.equ nChars,4
.equ local,8
.section rodata
.align 2
promptMsg:
.asciz "Enter four characters: "
.equ prompt_ngth,-promptMsg
responseMsg:
.asciz "You entered: "
.equ responseLngth,-responseMsg
.text
.align 2
.global main
.type main, %function
```

```
fp, [sp, 0]
                               @ save fp
                lr, [sp, 4]
                fp, sp, 4
                               @ set our frame pointer
                r0, STDOUT
                               @ prompt user for input
               r2, promptLngth
                               @ address of 1st char
                r0, STDIN
                               @ from keyboard
                               @ address of 2nd char
                r2, 1
                               @ one char
               read
                               @ address of 3rd char
                               @ one char
                r0, STDIN
                               @ from keyboard
                               @ address of 4th char
               read
                               @ nice message for user
                               @ address of 1st char
                               @ delete local vars
                               @ restore caller fp
                               @ and sp
                               @ return
promptMsqAddr:
               promptMsg
responseMsgAddr:
```

```
con corrected to the co
```

12.4.[

12.2.1



```
endElse:

mov r0,0 @ return 0;
add sp, sp, local @ deallocate local var
ldr r4, lsp, 4] @ restore r4
ldr fp, lsp, 8] @ lr
add sp, sp, 16 @ sp
bx lr @ return

.aign 2
promptAddr:
.word numeral
otherAddr:
.word other
.word other
.word other
```