Question 1:
[Thread 1820.0x2d4c exited with code 6]

[Inferior 1 (process 1820) exited with code 06]

Question 2:
ni
mov $5, %rax   mov $7, %rbx   mov $9, %rcx
rax   0x5   5   rbx   0x7   7
rcx   0x9   9
ni
lea (%rax, %rbx), %rdx
rax   0x5   5   rbx   0x7   7
rcx   0x9   9   rdx   0xc   12
ni
mov %rax, %rsi
rax   0x5   5   rbx   0x7   7
rcx   0x9   9   rdx   0xc   12
rsi   0x5   5
ni
mul %rcx
rax   0x2d   45   rbx   0x7   7
rcx   0x9   9   rdx   0x0   0
rsi   0x5   5
ni
xchg %rax, %rsi
rax   0x5   5   rbx   0x7   7
rcx   0x9   9   rdx   0x0   0
rsi   0x2d   45
ni
mov %rbx, %rdi
rax   0x5   5   rbx   0x7   7
rcx   0x9   9   rdx   0x0   0
rsi   0x2d   45   rdi   0x7   7
ni
sub %rax, %rdi
rax   0x5   5   rbx   0x7   7
rcx   0x9   9   rdx   0x0   0
rsi   0x2d   45   rdi   0x2   2
ni
mov %rsi, %rax
rax   0x2d   45   rbx   0x7   7
rcx   0x9   9   rdx   0x0   0
rsi   0x2d   45   rdi   0x2   2
ni
mov %rdi, %rcx
rax   0x2d   45   rbx   0x7   7
rcx   0x2   2   rdx   0x0   0
rsi   0x2d   45   rdi   0x2   2
ni

```
div %rcx
rax     0x16    22          rbx     0x7     7
rcx     0x2     2           rdx     0x1     1
rsi     0x2d    45          rdi     0x2     2
ni
ret

Question 4:
ni
mov $0xdeadbeef12345678, %rax    mov $7, %rbx     mov $9, %rcx
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
ni
mov %rbx, %rcx
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0xabbaf0bb0bb398d1
ni
and %rax, %rcx
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0x8aa8b0ab02341050
ni
mov %rbx, %rdx
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0x8aa8b0ab02341050
rdx     0xabbaf0bb0bb398d1
ni
or %rax, %rdx
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0x8aa8b0ab02341050
rdx     0xffbffeff1bbedef9
ni
mov %rbx, %rsi
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0x8aa8b0ab02341050
rdx     0xffbffeff1bbedef9
rsi     0xabbaf0bb0bb398d1
ni
xor %rax, %rsi
rax     0xdeadbeef12345678
rbx     0xabbaf0bb0bb398d1
rcx     0x8aa8b0ab02341050
rdx     0xffbffeff1bbedef9
rsi     0x75174e54198acea9
ret
```

Question 3
Author: Simon Garcia
0 = 0000
1 = 0001
2 = 0010
3 = 0011
4 = 0100
5 = 0101
6 = 0110
7 = 0111
8 = 1000
9 = 1001
A = 1010
B = 1011
C = 1100
D = 1101
E = 1110
F = 1111

```
10110111 in decimal = 183    in hex = B7      1 + 2 + 4 + 16 + 32 + 128
10101001 in decimal = 169    in hex = A9      1 + 8 + 32 + 128

        10110111                    10110111                10110111
        10101001                    10101001                10101001
AND     10100001        OR          10111111     XOR        00011110
```