Problem 2

(a) Results for different values of x:

```
x = %rax
i = %rdi
```

rax rbx rcx rdx rsi rdi rax rbx rcx rdx rsi	0xc 0x18 0xc 0x0 0x0 0x4 0x9 0x2d0 0x9 0x0 0x0	12 24 12 0 0 4 9 720 9
rdi rax rbx rcx rdx rsi rdi	0x6 0xb 0x2611500 0xb 0x0 0x0 0x0	6 11 39916800 11 0 0
rax rbx rcx rdx rsi rdi	0x15 0x13b0 0x15 0x0 0x0 0x7	21 5040 21 0 0 7
rax rbx rcx rdx rsi rdi	0x16 0x2611500 0x16 0x0 0x0 0xb	22 39916800 22 0 0

(b) Overflow Values:

Values of after which overflow begins:

• 64 bit: x = 23

• 32 bit: x = 13

• 16 bit: x = 11

• 8 bit: x = 7